<110>   SHARMA, Praveen
         SAHNI, Narinder Singh
         LONNEBORG, Anders

<120>   PRODUCT AND METHOD

<130>   Q87920

<140>   US 10/535,414
<141>   2005-05-19

<150>   PCT/GB03/05102
<151>   2003-11-21

<160>   501

<170>   PatentIn version 3.3

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gacctggcct agcagtttgg ccctgctggc cttagcaggg agacagggga gcaaagaacg   180

ccaagccgga ggcccgaggc cagccggcct ctcgagagcc agagcagcag ttgaatgtaa   240

tgctggggac aggcatgctg ccgccagtag ggcggggacc cggacagcca ggtgactacc   300

agtcctgggg acacactcac cataaacaca tccccaggca ggacagatcg gggaaggggt   360

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naccatcatc aacaccttcc accaatactc tgtgaagctg gggcacccag acaccctgaa   120

ccaggggggaa ttcaaagagc tggtgcgaaa agatctgcaa aattttctca agaaggagaa   180

taagaatgaa aaggtcatag aacacatcat ggaggacctg gacacaaatg cagacaagca   240

gctgagcttc gaggagttca tcatgctgat ggcgaggcta acctgggcct cccacgagaa   300

gatgcacgag ggtgacgagg ccctggcca ccaccataag ccaggcctcg gggagggcac   360

cccctaagac cacagtggcc aagatcacag tggccacggc cacggccaca gtcatggtgg   420

ccacggccac agccactaat caggaggcca ggccaccctg cctntaccca accagggccc   480

cggggcctgt tatgtcaaac tgtcttggct gtggggctag gggctggggc caaataaagt   540

                                                                    550
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agtcagggga atccccttat ttctgttttg catatgagga accctagagc agccaggtga   180

ggctctctag tttaataaaa atcatggaaa gactcttaat gcagactctt cttaagtgtt   240

aataggggatt ttttcagctt attttggttg cagtttccaa ttttttaaaaa tgttgaggta   300

atctttccca ccttcccaaa cctaattctt gtagatgcat tagtgttgaa ccaatgcttt   360

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gttaatatac caatttcagt ctcttggttt tgacagatgt accatggtga tgtaagatgt     180

tgaccttggg gtaggctggg tgaagggtat acaggaactc tttgtactat ctctgcaact     240

tctctgtaaa tctagtatca ttccaaaata aaagtttatt taattt                    286


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cagggaagac agggcgacct ggaagtccaa ctacttcctt aagatcatcc aactattgga     120

tgattatccg aaatgtttca ttgtgggagc agacaatgtg ggctccaagc agatgcagca     180

gatccgcatg tcccttcgcg ggaaggctgt ggtgctgatg ggcaagaaca ccatgatgcg     240

caaggccatc cgagggcacc tggaaaacaa cccagctctg gagaaactgc tgcctcatat     300

ccggggggaat gtgggctttg tgttcaccaa ggaggacctc actgagatca gggacatgtt     360

gctggccaat aaggtgccag ctgctgcccg tgctggtgcc attgccccat gtgaagtcac     420

tgtgccagcc cagaacactg gtctcgggcc cgagaagacc tccttttttcc aggctttagg     480

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aagatattgc ttagcgttaa gtttttaacg taattttaat agcttaagat tttaagagaa   180

aatatgaaga cttagaagag tagcatgagg aaggaaaga taaaaggttt ctaaaacatg   240

acggaggttg agatgaagct tcttcatgga gtaaaaaatg tatttaaaag aaaattgaga   300

gaaaggacta cagagccccg aattaatacc aatagaaggg caatgctttt agattaaaat   360

gaaggtgact taaacagctt aaagtttagt ttaaaagttg taggtgatta aaataatttg   420

aaggcgatct tttaaaaaga gattaaaccg aaggtgatta aaagaccttg aaatccatga   480

cgcanggaga attgcgcatt taaagcctag ttacgcattt actaaacgca gacgaaaatg   540

ggaagattaa ttgggagtgg taggatgaaa caattttgga gaagatagaa g   591

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ttccgagcat tccagtaact tttttgtgta tgtacttagc tgtactataa gtagttggtt   120

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tgtatgagat ggttaaaaag gccaaagata aaaggtttct ttttttttcc ttttttgtct    180

atgaagttgc tgtttatttt ttttggcctg tttgatgtat gtgtgaaaca atgttgtcca    240

acaataaaca ggaattttat tttgctgagt tgttctaaaa aaaaaaaaa aaaaaaa        297



<210>  8
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<213>  Homo sapiens

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cggccacctc ggcctcccga aagtgctggg attacaggcg tgagccacgg cgcccagccc    120

cagcctgtca cttaaactga taaacgacag attaacagta gaaaaatttt attttgcata    180

cataatgagg cttcacaaaa gagaagtgaa aacccaagta ggagtttagg gctgggggct    240

tatataccat ttaacaaggg gtgataaatt gtaagagaat ag                       282



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<212>  DNA
<213>  Homo sapiens

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gtaacaggtg ccattgttac tgtaactttt cacacatgcc ttcagtttga tgtcaaagtc    120

atcatttagt gtaaacagca agttatctgt taggctgcac atcatgaact ttactttag     180

aaagtcttat cttttatgcc acagaaatag catttggcta ttagtcatgg atggcaaaga    240

aattaatttt gagttgtttg ataaaaatg tttcagttga ctgtagtgtg tattgagaga     300

cactgccagt aaacaaactc tcttggtagg tggaaatccc ctagaagtta cagaaaattg    360

ggaggaggtg aacttaatta aataacttga attgtttaga catattcaga gcttcttatg    420

accttgaaga aatcacccaa cttcaaaaga cctcggtttc ttcatttgta aaattaggga    480

gtttgactag atgtgtaaat ctagttgtta gttaacttct aagatgtaaa aaccctcttg    540

tttaacaaaa acctacaaga tcaagttgct tatctgaaat ctttatgaat caacactagt    600
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aggtacctta cccacctcag cacctgagag ggtgaaatag aattctaacc tcgacattcg   120

ggaagtgttt ttgagaagtc tcggtcggta agggaagtct tccaagtccg tgcagcacta   180

acgtattggc acctgcctcc tcttcggcca cccccagat gaggcagctg tgactgtgtc   240

aagggaagcc acgactctga ccatagtctt ctctcagctt ccactgccgt ctccacagga   300

aacccagaag ttctgtgaac aagtccatgc tgccatcaag gcatttattg cagtgtacta   360

tttgcttcca aaggatcagg ccctgagaac aatgacctta tttcctacaa cagtgtctgg   420

gttgcgtgcc agcagatgcc tcagatacca agagataaca aagctgcagc tctttttgatg   480

ctgaccaaga atgtggattt tgtgaaggat gcncatgaan aaatggacna gctgtg   536

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<223>  n is a, c, g, or t

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ctatatcatc taatttagtt tgaatattcc ataatttact taattagtcc tgtatggaga      180

cctagctctt ctcagtgtct actattataa acaatgctac agtgaatatt ggtgnataaa      240

tccatacnca ccacgtacat atcttaagtt ctggaagaga tattgctaaa ccagaagata      300

acctgcattt aaaatttgac tgctagggnc agggncacat ttaattaaat tagaacaang      360

aatgcataat gnc                                                          373
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agtagtattt aatattcaag tacttgtaaa tttgcagaac agtacttttt aatttgaccc   180

atgaattcta tttaaatttg tcacttaata tttagccaag aagcaaacca tctaaaaaga   240

tttctggttt atttctccaa ctcctaataa atagggtcac atattttta actttttct   300

aatttgaaaa gtaatacagg catatggtat tttaaaaatg aaacaacaca aagggatatg   360

ttttgaaaag tggtcttgcc atccctgaac tgtaatcatc cctaacatat tcatacctgt   420

tttcatttta aaagttgggt cagttttttt attagtacat gtatttctat cctactgatt   480

tatttgctat atcatctaat ttagtttgaa tattccataa tttacttaat tagtcctgta   540

tggagaccta gctcttctca gtgtctacta ttataaacaa tgctacagtg aatattggtg   600

nataaatcct acacaccacg taacatatct taagttcctg gaagagatat tgctaaacca   660

gaagataacc tgcatttaaa atttgactgc tagggtcagg gtcacattta aattaaatta   720

gaacaaggaa tgcataatgt cttcgatagc aatctattca aggtgcaccg tggtcacaaa   780

ggaaagcaaa actgtc   796

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<223>   n is a, c, g, or t

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<223>   n is a, c, g, or t

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tgggaatggg gttggataaa ccaatgaact ttattataaa caaatcccac ctatatctan   180

caaatttata ttttcggtga aatacagata tttgcctttc tggagtanta tagaagctgt   240

caatatgtat ctactgtaca gtactaaata gtattcattt atgaaatgag tagtgtttgg   300

gtggctgggg ttaaggaaaa atgagacttg gaattgtagc ttttatccaa gttttgagta   360

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taaatagggt tttgttttgt ttttttttaac ctaaaaactg aaatgccata tagaaaaaca    420

gcattgtttt tacagtttgt agtaagtaac tttttaaaga ttttatcaaa aagaattttg    480

tctatngtga gtaaaagaag ttctaataat ggcctaatca ctgcatttt aaaaaacaaa      540
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gttcaacaca aatgacattt gttt
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<213>  Homo sapiens
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acagccccaa atgctggctg ccccccggcca agcattgggg ccgccatcct gcctggcact    120

ggctgatggg cacctctgtt ggttccatca gccagagctc tgccaaaggc cccgcagtcc    180
                                                                    230
ctctcccagg aggaccctag aggcaattaa atgatgtcct gttccattgg
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<223>  n is a, c, g, or t
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<223>  n is a, c, g, or t
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ttaaaaaaaa aaaaagatag tttgtgtgtc ttaattgaat aatagtagat ttatagatta    120
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aagatctatg ggtttttaat atggattana aatctgtggg ttttttgatat ggattanaaa   180

tctgtgggtt tttaatatgg attggaaatc tgtgggtttt taatatggat taaaaaacat   240

ctgtgggttt ttaatatgga ttaaacatct gtgggttttt aatatggatt aaacatctgg   300

gttttttaata tggattaaac atctgtgggt ttttaatatg ggttaaaaat caaaagaaaa   360

tgaactattt gctccagtgc aggaaaatac aggcaatact ggatacaatt agatggtcag   420

gagcgataac ccggttgcca ttgtttgaag aagagaataa ggngctagca ttcctatccg   480

tagataattt gacagctagg aaataggggg agtcttctat gtagttagtg aaggctaaat   540

gaactattat atgc   554

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aggtacctta cccacctcag cacctgagag ggtgaaatag aattctaacc tcgacattcg   120

ggaagtgttt ttgagaagtc tcggtcggta agggaagtct tccaagtccg tgcagcacta   180

acgtattggc acctgcctcc tcttcggcca ccccccagat gaggcagctg tgactgtgtc   240

aagggaagcc acgactctga ccatagtctt ctctcagctt ccactgccgt ctccacagga   300

aacccagaag ttctgtgaac aagtccatgc tgccatcaag gcatttattg cagtgtacta   360

tttgcttcca aaggatcagg ccctgagaac aatgacctta tttcctacaa cagtgtctgg   420

gttgcgtgcc agcagatgcc tcagatacca agagataaca aagctgcagc tcttttgatg   480

ctgaccaaga atgtggattt tgtgaaggat gcacatgaag aaatggagca ggctgtggaa   540

gaatgtgacc cttactctgg cctcttgaat gatactgagg agaacaactc tgacaaccac   600

aatcatgagg   610

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<211> 359
<212> DNA

<213> Homo sapiens

<400> 17
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cagcatccag cagcatgagc ggaggcattt tccttttctt cgtggccaat gccataatcc     120

acctcttctg cttcagttga ggtgacacgt ctcagcctta gccctgtgcc ccctgaaaca     180

gctgccacca tcactcgcaa gagaatcccc tccatctttg gaggggttg atgccagaca      240

tcaccaggtt gtagaagttg acaggcagtg ccatggggggc aacagccaaa ataggggggt     300

aatgatgtac gggccaagca ctgcccagct gggggtcaat aaagttaccc ttgtacttg      359
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<210> 18
<211> 154
<212> DNA
<213> Homo sapiens

<400> 18
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ctacaaatct ccttaattat aacattcaca gccacagaac taatcatatt aaaaaaaaaa     120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa                                 154
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<210> 19
<211> 661
<212> DNA
<213> Homo sapiens

<400> 19
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cagaacagta cttttaatt tgacccatga attctattta aatttgtcac ttaatattta       60

gccaagaagc aaaccatcta aaaagatttc tggtttattt ctccaactcc taataaatag     120

ggtcacatat ttttaactt ttttctaatt tgaaaagtaa tacaggcata tggtatttta      180

aaaatgaaac aacacaaagg gatatgtttt gaaaagtggt tcttgccatc cctgaactgt     240

aatcatccct aacatattca tacctgtttt cattttaaaa gttgggtcag tttttttatt     300

agtacatgta tttctatcct actgatttat ttgctatatc atctaattta gtttgaatat     360

tccataattt acttaattag tcctgtatgg agacctagct cttctcagtg tctactatta     420

taaacaatgc tacagtgaat attggtgtat aaatccatac acaccacgta acatatctta     480
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agttcctgga agagatattg ctaaaccaga agataacctg catttaaaat tttgactgct      540

agggtcaggg tcacatttaa attaaattag aacaaggaat gcataatgtc ttcgatagca      600

atctattcca ggtgcaccgt ggtcacaaag gaaagcaaaa ctgtcaataa ctttcttctc      660

a                                                                       661
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<211>  770
<212>  DNA
<213>  Homo sapiens

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attgaggttc gaaattaata aagaaaataa aagaaatgta tcttcattca ttctgtatgt      120

tagtgtttta attaccctta gaatatatgg ataaaaaata ctattctttg tcttggagaa      180

ggtaagagtc tagttagatg aataagggtt atctatgtag aacaactaga gaatgagaag      240

agagcttatg agattgagta ctacgttatg cagtagagta gcacgtcatc tgctactgag      300

tatggtgtga taacattgtg taacaggaaa gtatgatcaa tatctactta aaattaagga      360

caatattagc actacattgc tttattttaa agtaaaaatt agagaactaa acacaagcat      420

tgtaagtaca ataaaagctg atctttctag ttaagcagaa taatacatgt tcaagcatct      480

gctaaatcat taaatataag aatataggg ttttctataa tcttattttc tttggaagag      540

tacctcattt tcaagangag aagtttctaa ttgccacttc tttaaaaata aaacagggtt      600

ttaatgttcc cagcacaaaa attaatatct cttcaaaaag tctcttgtga ttaagtttga      660

atcccttgtc atactgcttc taatattgac actgacctcc ttaggtattt ttcaggggtt      720

ataatctttt cttaaggtat ctttttttcaa gaattggata ccttgggctt              770
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<210>  21
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<211> 654
<212> DNA
<213> Homo sapiens

<400> 21
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aagggtccaa gactccatta actgccctgg atgaagggca ctgctacagc agctagtacc   120

agagactctc ctatctcacg gttgaggcag acccaggata gaatagagaa taaaaggaat   180

gcttatagga aacaattttg tatggaatgc tagatggcca agcctcagcc tttggtccag   240

tgcaacccct gcctcgcttg tcaacagtga aaaattagtt tggttagaag aaccatctgg   300

aaacacacca gcttctgcta ccttcatgct cattgttaaa aaaagattaa ccagtgtgaa   360

cattctgatc tgttaattcc agggactgtt ttctttccaa tggactgttt gttggtagaa   420

taacccccaa aagctcaaag ctaaaatgca tcatcagtcc tagtcggcag ttccttaaga   480

atggactggc ggcgtggttg agctgatatg gaaaagctgc accttcctgc agaagatcaa   540

ctgacctgct atcccacccc aaattcaacc tgaggtatat ttcagtgaag caggtagctg   600

tgcttctcaa agcagagaag cagttttaag aaccaaaaag gtagaggaaa tcta   654

<210> 22
<211> 676
<212> DNA
<213> Homo sapiens

<220>
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<222> (199)..(199)
<223> n is a, c, g, or t

<400> 22
gtttgttaca ggcagaattg gatagataca gccctacaaa tgtatatgcc ctcccctgaa   60

aaaaattgga tgaaaatctg cacagcaaag tgaaacacac agataatagg aacaaaatgt   120

agttcccatg tgccaaacaa aataaatgaa atctctgcat gtttgcagca tatctgcctt   180

ttgggaatgt aatcaaggna taatctttgg ctagtgttat gtgcctgtat ttttttaaaa   240

tggtacacca gaaaaggact ggcagtctac ttctaccata gttaaacttc accctctttta   300

atttcacaac atattctttg gaagcaggaa gaaatgctca taaagaggat cagaccttct   360

ttcccgtgaa accagtattt ggcgccatat ataagcctgg ttaaattggt catctaaagc   420

tgtcaaataa gacattctgt gaaaggtaaa catcgaaact ggttataagt aaaaccatca   480

agccaacaac agggtcttga dataacctttt gaagcttatt gtctggcctg caccagaaga   540

tgtctgcatt actcattgct aaaaatgtgt acacagaact gcactaggat taattggttc   600

aagaagaaat ttaaacttac gtttgggttt ccatacagca ctctattgaa tacatgcatc   660

tgaatttaag ttgcaa   676

<210> 23
<211> 609
<212> DNA
<213> Homo sapiens

<400> 23
gaccagtaat ggctttttaag agtccatttt gtcattgtct ccctagttaa ttacaggtgg   60

gggatctttt gcctctattc tcttcatatt gaaatgaatc atactcatgt tttgtggaac   120

tccttaaagt tgtagctgtc atgatcagat ttttttata tttcctcagc ttaactctgc   180

tacttgattt acagtgaccc ataacctact catccttggt ttatagtgac acataatctt   240

atctctttat agaaccttaa attttatcat tattttcgct tagaatacag catttctttg   300

cttctgttgc tggtttgact taagaaataa ggcagtaact ctgatcaatc aattatccat   360

aaggaagggc ttttcatggg ttctattaat ttgttagtac cctaagtata tctgaaaaat   420

atgtctattg agagaagatt ttggcattcc agatggtata gtctatatat atttaaagtt   480

ttgaatttgc ttatatatac tcagctttct ttttctagca tttttgcatt tacctgttaa   540

ttgaagtata cccccacat ataaaagttc ctcttaaaga cactggactc tttctggggg   600

gctaaaata   609

<210> 24
<211> 554
<212> DNA
<213> Homo sapiens

<220>
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<222> (149)..(149)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (177)..(177)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (463)..(463)
<223> n is a, c, g, or t

<400> 24
cccggaatcg cggcccgcgt cgacaacaaa cctgcatgtt ctgcacatgt atccaggaac   60

ttaaaaaaaa aaaaagatag tttgtgtgtc ttaattgaat aatagtagat ttatagatta   120

aagatctatg ggtttttaat atggattana aatctgtggg tttttgatat ggattanaaa   180

tctgtgggtt tttaatatgg attggaaatc tgtgggtttt taatatggat taaaaaacat   240

ctgtgggttt ttaatatgga ttaaacatct gtgggttttt aatatggatt aaacatctgg   300

gttttaata tggattaaac atctgtgggt tttaatatg ggttaaaaat caaaagaaaa   360

tgaactattt gctccagtgc aggaaaatac aggcaatact ggatacaatt agatggtcag   420

gagcgataac ccggttgcca ttgtttgaag aagagaataa ggngctagca ttcctatccg   480

tagataattt gacagctagg aaatagggggg agtcttctat gtagttagtg aaggctaaat   540

                                                                       554
gaactattat atgc

<210> 25
<211> 674
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (388)..(388)
<223> n is a, c, g, or t

<220>
<221> misc_feature

<222> (506)..(506)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (672)..(672)
<223> n is a, c, g, or t

<400> 25
cggctaccga cagaaggact atttcatcgc cacccagggg ccactggcac acacggttga   60

ggacttctgg aggatgatct gggaggggaa gtcccacact atcgtgatgc tgacggaggt   120

gcaggagaga gagcaggata aatgctacca gtattggcca accgagggct cagttactca   180

tggagaaata acgattgaga taaagaatga tacccttca gaagccatca gtatacgaga   240

ctttctggtc actctcaatc agccccaggc ccgccaggag gagcaggtcc gagtagtgcg   300

ccagtttcac ttccacggct ggcctgagat cgggattccc gccgagggca aaggcatgat   360

tgacctcatc gcagccgtgc agaagcanca gcagcagaca ggcaaccacc ccatcaccgt   420

gcactgcagt gccggagctg ggcgaacagg tacattcata gccctcagca acattttgga   480

gcgagtaaaa gccgagggac ttttanatgt atttcaagct gtgaagagtt tacgacttca   540

gagaccacat atggtgcaac cctggaacag tatgaaatgt gctacaaagt ggtacaagat   600

ttattgatat atttctgatt atgctaattt caatgaagat cctgccttaa atattttta   660

                                                                     674
atttaatggc anat   .

<210> 26
<211> 609
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (524)..(524)
<223> n is a, c, g, or t

<400> 26
caagactcca tctcaaaaaa aaaaaaaaat ctacagtgct gagtatataa aattattaac   60

acatttcaca acaatatgtg tttgtggagt taaatatttt ttgtctttaa aacaggtaat   120

tttagtgcat acttaatttg atgattaaat atggtagaat taagcatttt aaatgttaat   180

gtttgttaca ttgttcaaga aataagtaga aatatattcc tttgtttttt atttaaattt   240

ttgttcctct gtaaactaaa agaacacgaa gtaattggtc acaattactg gtgtttaact   300

gccaaatatg ggtaaataag ggaaaatttt gtttaatatt tagtccttct gagatggctt   360

gaatatttga attttgttgt acgtctatac tgggtagtca caagtcttat aaacacttta   420

gaggaaagat ggatttcagt ctgtattttt aaacatcatt tattttaaat ctggtgctga   480

aaaataagaa aaaaattaaa ctgcattctg ctgttcttct ttanaagcat tcctgcgtaa   540

atactgctgt aatactgtca tgcaaagtgt atcctttctt gtcgtatcct ttttggggca   600

gtggttttt   609

<210>   27
<211>   383
<212>   DNA
<213>   Homo sapiens

<400>   27
gcgggaatcg cggcccgcgt cgacctcaaa ggagaaaaaa aaccttgtaa aaaaagcaaa   60

aatgacaaca gaaaaacaat cttattccga gcattccagt aacttttttg tgtatgtact   120

tagctgtact ataagtagtt ggtttgtatg agatggttaa aaaggccaaa gataaaaggt   180

ttctttttttt ttccttttttt gtctatgaag ttgctgttta tttttttttgg cctgtttgat   240

gtatgtgtga aacaatgttg tccaacaata aacaggaatt ttattttgct gagttgttct   300

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ttttaaaatt   360

tttaaaataa aacccttggt tat   383

<210>   28
<211>   729
<212>   DNA
<213>   Homo sapiens

<220>
<221>   misc_feature
<222>   (213)..(213)
<223>   n is a, c, g, or t

<220>
<221> misc_feature
<222> (306)..(306)
<223> n is a, c, g, or t

<400> 28
gccgcgtcga cctgcatgag ccacagtttc ttgactggag gccatcaacc ctcttggttg   60

aggccttgtt ctgagccctg acatgtgctt gggcactggt gggcctgggc ttctgaggtg   120

gcctcctgcc ctgatcaggg accctccccg ctttcctggg cctctcagtt gaacaaagca   180

gcaaaacaaa ggcagtttta tatgaaagat tanaagcctg gaataatcag gctttttaaa   240

tgatgtaatt cccactgtaa tagcataggg attttggaag cagctgctgg tggcttggga   300

catcantggg gccaagggtt ctctgtccct ggttcaactg tgatttggct ttcccgtgtc   360

tttcctggtg atgccttgtt tggggttctg tgggtttggg tgggaagagg gccatctgcc   420

tgaatgtaac ctgctagctc tccgaagccc tgcgggcctg gcttgtgtga gcgtgtggac   480

agtggtggcc gcgctgtgcc tgctcgtgtt gcctacatgt ccctggcttg ttgaggcgct   540

gcttcaacct gcacccctcc ttgtctcata gatgctcctt ttgaccttttt caaaattaat   600

atggatggga aagctcctat gcctttggc ttcctggtag aaggcgggat gcccaagggt   660

ctgcctgggt gtggattgga tgcttggggt gtggggttg gaaactgtct tgtggcccac   720

ttgggcccc   729

<210> 29
<211> 552
<212> DNA
<213> Homo sapiens

<400> 29
cccgcgtcga cttttaaagt catctctata ggaaggtgct gggcagggat cccagagaaa   60

gaaagggtcc aagactccat taactgccct ggatgaaggg cactgctaca gcagctagta   120

ccagagactc tcctatctca cggttgaggc agacccagga tagaatagag aataaaagga   180

atgcttatag gaaacaattt tgtatggaat gctagatggc caagcctcag cctttggtcc   240

agtgcaaccc ttgcctcgct tgtcaacagt gaaaaattag tttggttaga agaaccatct   300

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ggaaacacac cagcttctgc taccttcatg ctcattgtta aaaaaagatt aaccagtgtg      360

aacattctga tctgttaatt ccagggactg ttttctttcc aatggactgt ttgttggtag      420

aataacccc aaaagctcaa agctaaaatg catcatcagt cctagtcggc agttccttaa       480

gaatggactg gcggcgtggg tgagctgatt tggaaaactg cccttctgca aaaaacactg      540

gcctgctttc ca                                                          552


<210>   30
<211>   606
<212>   DNA
<213>   Homo sapiens

<400>   30
caagactcca tctcaaaaaa aaaaaaaaat ctacagtgct gagtatataa aattattaac      60

acatttcaca acaatatgtg tttgtggagt taaatatttt ttgtctttaa aacaggtaat      120

tttagtgcat acttaatttg atgattaaat atggtagaat taagcatttt aaatgttaat      180

gtttgttaca ttgttcaaga aataagtaga aatatattcc tttgttttt atttaaattt       240

ttgttcctct gtaaactaaa agaacacgaa gtaattggtc acaattactg gtgtttaact      300

gccaaatatg ggtaaataag ggaaaatttt gtttaatatt tagtccttct gagatggctt      360

gaatatttga attttgttgt acgtctatac tgggtagtca caagtcttat aaacacttta      420

gaggaaagat ggatttcagt ctgtatttt aaacatcatt tattttaaat ctggtgctga       480

aaaataagaa aaaattaaa ctgcattctg ctgttcttct ttagaagcat tcctgcgtaa       540

atactgctgt aatactgtca tgcaaagtgt atcctttctt gtcgtatcct ttttggggca      600

gtggtt                                                                 606


<210>   31
<211>   734
<212>   DNA
<213>   Homo sapiens


<220>
<221>   misc_feature
<222>   (448)..(448)
<223>   n is a, c, g, or t
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<220>
<221> misc_feature
<222> (617)..(617)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (663)..(663)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (677)..(677)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (706)..(706)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (710)..(710)
<223> n is a, c, g, or t

<400> 31

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ctggactgca tgaccagatc tgatgggtga gactcaggtg gcatggaaga gccgaaagag      60

gataccatat gtgggtgccg ggggggatag gtgagaagta ctagaaggcg gaatggaagg     120

acacttctgc tcagctctgt gacacgggca gggaccctgc agggctcagg tcctttaaca     180

cagcagcttc attctaacac cagcagcgtt ggaacacacg tacaagtatg cagactaagc     240

tcttgcttgg ctgatacggc tttttgggtt tttagagaac atgcatatat gttctcattc     300

atggtacatg aactcagaag ccttactgcc tattttgtt aatacttctg ggcaaacatt     360

accacttaca actcacacca gttagaaatc atttgtaaaa tgttatttaa taaagccaaa     420

gaactaaatc atatttattt tccaaggntt tctaagatct ctgaaactaa tgaggttttt     480

taaatcccca ttaagtactc atcactgcta gtaaaagcag ttgtctttac ctttaattcc     540

agtgagtccc cttaaattta tttttatta tctttggcta cattgcctta gacaaaatgt     600

ggtcaccta atttaangga taaaattcac atcctcacag atttcttatt aagagggtct     660

aanccttgaa taatcancag tggaaatgga agtcttcttt actggntttn atcctttccc     720
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ttttttatcc catg
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<210>  32
<211>  517
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (53)..(53)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (89)..(89)
<223>  n is a, c, g, or t

<400>  32
ttttttttta aataaagctg tcggcactca agggtaattt catatcagtg tgntctacaa      60

gctgggggaa aatgagttct aattgtcana gctaccaaat ccttcacctt tagcataaag     120

gtttaaagat atcacaaaga tgccaagtga ttaataatgt tttaaaccac cccttttct      180

gtctgaaaaa acaactaaaa caatattaca acagtatagt tacagaaggg ttctattttc     240

atatgtttta tgcacactgt gcctcaaagg tactatttaa atatatatac ttttgagggg     300

gtggctaatg cagaaacacc caagacctaa ggaagataca accccatttc taggtgtgag     360

gtctaaatgc ttcacacacc cacttgtgac cttttttcat gaagaatcat aacactgtgc     420

agtgagaaac agtggcaaag caatactgaa agcattttaa attatttact aggttaaaag     480

ggtgaactga tactttaaat acatcaaatt tcatcat                              517


<210>  33
<211>  536
<212>  DNA
<213>  Homo sapiens

<400>  33
gcaagtgaga gccggacggg cactgggcga ctctgtgcct cgctgaggaa aaataactaa      60

acatgggcaa aggagatcct aagaagccga gaggcaaaat gtcatcatat gcattttttg     120
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tgcaaacttg tcgggaggag cataagaaga agcacccaga tgcttcagtc aacttctcag    180

agttttctaa gaagtgctca gagaggtgga agaccatgtc tgctaaagag aaaggaaaat    240

ttgaagatat ggcaaaagcg acaaggcccc gttatgaaag agaaatgaaa acctatatcc    300

ctcccaaagg ggagacaaaa aagaagttca aggatcccaa tgcacccaag aggcctcctt    360

cggccttctt cctcttctgc tctgagtatc gcccaaaaat caaaggagaa catcctggcc    420

tgtccattgg tgatgttgcg aagaaactgg gagagatgtg gaataacact gctgcagatg    480

acaagcagcc ttatgaaaag aaggctgcga agctgaagga aaaatacgaa aaggta        536


<210>  34
<211>  622
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (5)..(5)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (8)..(8)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (21)..(21)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (25)..(25)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (65)..(65)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (79)..(80)
<223>  n is a, c, g, or t
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<220>
<221> misc_feature
<222> (103)..(103)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (143)..(143)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (481)..(481)
<223> n is a, c, g, or t

<400> 34
ctgtnatnga atctgcttgt nactnaaatg ctaaactcaa ttctgtaatt caataggtgc   60

acctntctga gaaacatann agacaatgag gaaaaggatt cancattccg tggaatttgt   120

accatgatca gtgtgaatcc cantggcgta atccaagtaa gatgttcaca aagatttgtt   180

tttaatgtct aattaataaa attttaaagg aagaaacatt ctaatacttt aattataaaa   240

agttaactat tttcaaaggt atcaaaatac agttaaacct ttaaaatgta tatttcttaa   300

tatcttgaaa ttgtaatgcc tttttttttt cctaaatttt ttttgtcatg aaatgagata   360

gtaacagcag attgggacaa caaggttata ttcttgtctt gaatcaggcc atggcttctt   420

tcatccaaat ttcagacctc atttatttac tttgtccctg cctcccatcc ctggatatca   480

ngtttgtgga tatctacagt taatagagtg accaaatagt aggaatactg tctctctatt   540

ctgaataaaa tactttgaat cagatttaga aataatgaat aaaatacaaa tcaccattga   600

aattgctcta attttgagag ct   622

<210> 35
<211> 628
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is a, c, g, or t

<400> 35
atcacntgag gcaagagttt gagccagcct agctaacatg gtgaaacccc atctctacaa   60

aaatataaaa attagcctgg gtggtgatgg gcacctgtaa ccccagctac tcgggaggct   120

gaggtaggag aatcacttga acccgggaga tggaggttgc agtgagccaa gatcgtgcca   180

ctgcactcca gcctgtgtga cagaacaaga ctctgtctca aaaaaaata ataataataa   240

taataataaa aaggaataac atagctagga ataaatttaa tcaaagaggt gaaagactta   300

tacacttaaa actacaaaaa aaaatcact gaaggaatta tagacccaaa taaaaataaa   360

taaaaagaca ttctgtgttt tagggaaaga agacttaata ttgttaagat gtcaatacta   420

cccaaagtga tctacagatt caacataatc cctatcaaaa ttccaacagc ctactttgta   480

gaaatggaaa agccaatttt caaattcaga tggaattgcg aggggttctg aataacaaaa   540

acaatcttgg ggaaaaaaaa caaaaaacaa agtcaaagaa ctcacacttc tctatttata   600

aatttactac aaagttatag taatcaaa   628

<210> 36
<211> 527
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (525)..(525)
<223> n is a, c, g, or t

<400> 36
tgaacatcca gccatgtcat ttcttccatt cctgccctgg agtaaagtag atttactgag   60

ctgatgactt gtgtgcattt gtacattgca accttagctt acctcttgaa gcatgtagag   120

cattcatcac ccaccattca ttcactgcct actcccacca cagctgtttc gtggtctgtc   180

tgctccctgt gccacccca ccccatcagg tgggcctttt gcaagtgatg aagtcacctg   240

tgggggaaga gctttccttt cctctcctca actcagaagg cctcttcctc ttgctcaaga   300

gggtgctgct gctttctgcc tccttccccg gccggcctcc atcccagttc accttttcag   360

aaatggcccc tcagtcaact cttcccttt ctcctggctt tttatttctc ccagtctctt   420

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aagagtatcc ttagctttaa aaacaataac acagaggatg ggtgcagtgg ctcatgcctg      480

taatcccagc actttggagc ctggggcggg cggatcactt gaggnca                    527


<210>   37
<211>   403
<212>   DNA
<213>   Homo sapiens

<400>   37
gtcccggaat cgcggccgcg tcgacctttt ctatgcctgc tatataaaca gtaccttgca      60

agatgtcctg tctgatatcc acaaaggggt attgtcaacc ccaagttcag acagctttgt     120

attcttctgt ccctggatac atgaattact gccatcttta cacagcgccc taaaatacca     180

acgcgaagtt acctgctcag cttgaagctg cgctgtaccc tggaaccagc acttctgctg     240

aatgactcag gatgaagcct cgacttctcc ttcccatccc atgcccagac cccagtggct     300

cctttcccaa tctgatccag tgactttaag tccagctgtt gcaacctggg catgaggagg     360

agtgcaagat ggctttgtcc tacctggaaa gaggctttct gga                       403


<210>   38 ·
<211>   111
<212>   DNA
<213>   Homo sapiens

<400>   38
caccatttac acacagtggg tccttgaata gcatcgtttt attcaatgtc attttgttat      60

aacattgaga aaaaaattga ttcccggctg gggccactgt ctgtgcaccg t              111


<210>   39
<211>   329
<212>   DNA
<213>   Homo sapiens

<400>   39
gaaagatcta aaatcgacac cctaacatca caattaaaag aactagagaa gcaagagcaa      60

attcaaaagc tagcagaagg caagaaataa ctaagatcag agcagagctg aaagagatag     120

agacacaaaa aaccattcaa aaaaaacaa tgaatccagg agttttttt ttaaaaagat       180
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caacagaatt gacagactgc tagcaagact aataaagaag agagaagcat caaatagact       240

caataaaaaa tgataaaggg gatatcacca ccaatcccac agaaatacaa actaccatca       300

gagaacacta taaacacctc tatgcaaat                                         329


<210>  40
<211>  341
<212>  DNA
<213>  Homo sapiens

<400>  40
gaaagatcta aaatcgacac cctaacatca caattaaaag aactagagaa gcaagagcaa        60

attcaaaagc tagcagaagg caagaaataa ctaagatcag agcagagctg aaagagatag       120

agacacaaaa aaccattcaa aaaaaaacaa tgaatccagg agttttttttt ttaaaaagat       180

caacagaatt gacagactgc tagcaagact aataaagaag agagaagcat caaatagact       240

caataaaaaa tgataaaggg gatatcacca ccaatcccac agaaatacaa actaccatca       300

gagaacacta taaacacctc tatgcaaata aactagaaaa t                          341


<210>  41
<211>  185
<212>  DNA
<213>  Homo sapiens

<400>  41
gaaagatcta aaatcgacac cctaacatca caattaaaag aactagagaa gcaagagcaa        60

attcaaaagc tagcagaagg caagaaataa ctaagatcag agcagagctg aaagagatag       120

agacacaaaa aaccattcaa aaaaaaacaa tgaatccagg agttttttttt ttaaaaagat       180

caaca                                                                   185


<210>  42
<211>  553
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (119)..(119)
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<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (121)..(121)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (157)..(157)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (205)..(205)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (214)..(214)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (216)..(216)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (229)..(229)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (252)..(252)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (327)..(327)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (329)..(329)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (354)..(354)
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<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (361)..(361)
<223> n is a, c, g, or t

<400> 42
gcccggaatc gcggccgcgt cgacgtaagc tcggctgaat ccacggttca agaacaggaa   60

agaaggccaa ggcataggga gtggggcagt tgggtgaata ttagtacctt tccctcagnt   120

ncattaatta cccctgccta ctctgcacaa aaggatntaa caacagtttc cttttttaatg 180

gccaggtaca gctgcttata tgganggggca ttttntnaatg atatccttna tcactgtctt 240

aatcatcaca tncttaaaac aatcacttta ttgtgttaag gaagataaaa atggctgggt   300

tcaatttccg ttctggaaga aatcgantna aaaggtaacc atttaataat gcanagggca   360

ntttcactgc agaccctaat actggaaatt tttaaaaaca aatgaaaaac ttctactttt   420

tcttctaagc ttacttaacc acccaaattt tccagccaca tatcttccta gtctacaact   480

gcctttaact ttaagagatg ctcaaaaaaa tgtaaattct caaatacatt cttattacaa   540

ttactgctaa cct   553

<210> 43
<211> 510
<212> DNA
<213> Homo sapiens

<400> 43
ccagtgtgct gggattacag gcatgagccc tgcacccagc ctcttaaact gatcatatga   60

tattggttct caaccaaggg tgactttgcc cccagaggat acttggcaat gtctggagat   120

actcagttgt catgacttgg acaggtgcta ctgtcaccca gtgggtagag gtcagggatg   180

gtgctaaaca taggacagct gtcaagagaa aagaatgtac ccagccccaa atgtcagtag   240

ggctgaggtt gagaaaccca gctgtagctg acgtgtgaag gacagactgg cctggaagtg   300

tgttttctgc cccttttccac ccctgcatat tagttaaggc caaaggaaaa aaggaatgca   360

ggaaatgccc gttaaaaatc ttcaaaacaa tataaaatga tcaattccac taaaaccctt   420

tacacattta agtataaagg tattggtagg aaaatttgtt attcactgct tttctcagtg   480

tcatgaaata attatttctg ctgtcagttt

<210> 44
<211> 335
<212> DNA
<213> Homo sapiens

<400> 44
aaaaaaaaaa tcactgaagg aattatagac ccaaataaaa ataaataaaa agacattctg   60

tgttttaggg aaagaagact taatattgtt aagatgtcaa tactacccaa agtgatctac   120

agattcaaca taatccctat caaaattcca acagcctact ttgtagaaat ggaaaagcca   180

attttcaaat tcagatggaa ttgcgagggg ttctgaataa caaaaacaat cttggggaaa   240

aaaaacaaaa aacaaagtca aagaactcac acttctctat ttataattta ctacaaagtt   300

atagtaatca aagtcgacgc ggccgcgatt ccggg   335

<210> 45
<211> 314
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (304)..(304)
<223> n is a, c, g, or t

<400> 45
cgactgcggc tcttcctcgg gcagcggaag cggcgcggcg gtcggagaag tggcctaaaa   60

cttcggcgtt gggtgaaaga aaatggcccg aaccaagcag actgctcgta agtccaccgg   120

tgggaaagcc ccccgcaaac agctggccac gaaagccgcc aggaaaagcg ctccctctac   180

cggcggggtg aagaagcctc atcgctacag gcccgggacc gtggcgcttc gagagattcg   240

tcgttatcag aagtcgaccg agctgctcat ccggaagctg cccttccaga ggttggtgag   300

gganatcgcc cagg   314

<210> 46
<211> 537

<212> DNA
<213> Homo sapiens

<400> 46
gcaatttaat ttttaataac aaagatactg tattttaaca tggtgaaata tacttggcta   60

agtccagatt aaaaaaaaaa agtatctagc ccaacagtac aattatacag ctttgtacag   120

aacattccat agatcaacag aaaatacatt tgagcgcaaa aataaaaaat atttaaggag   180

aatctctaag cagcatttta tttctgcaaa agacatatct tgtctgatta aatatctaca   240

agtgcttttc ctttcaaaaa tacatatatt cttaatagac taagtcatta acaatgacct   300

ggtaattctt tcacttcaat ttgaatgatt tataagctaa atcttcaacc acaaaaaggt   360

ttttatttgt attaagatgt taccactttt gacaaaaagc ttaaaatatt ttatatttca   420

aaggaaaatt agcaacataa ctttacaata tattctatga tattttgatt gtgagggcta   480

ctctatttaa aactgatgat ctctgttgtg ttgctcagat gcaggaaagc agcaaaa   537

<210> 47
<211> 534
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is a, c, g, or t

<400> 47
gacttanatc taaatggacc acattctcta cttaaaaaaa tgctattaac catgtgatct   60

tctcagtcat gaggtaatct ggtgactacc cttcctcaaa gccagttggg atattctttg   120

aatagagtaa aacagtgttt ctaggctggg agacaccaga catagttgag gacagaggtg   180

ctagaaaata ggaagtttaa aagcatgtgc ggtgatgctc agaggaggta aaccccaccc   240

tcatgctcat agcttccaat cattttctct agttcttaac tcttaaatgt gagaaatgct   300

tgaagattct agtcatctga agaaagtctc tttattaaag attttcataa aagagaccaa   360

agcagacaaa cagaaaaga catcttgggg aaaaaaacaa ggataatggg aagagaagga   420

aagttttaaa aattatcaat atcctcaggg ggacaaaata ttatatccta taaagacaga   480

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ttttttatttt ttaaaaaaat agaaagcaaa acaagctcct aaaaataaag tttg            534


<210>  48
<211>  444
<212>  DNA
<213>  Homo sapiens

<400>  48
gttaaggaag tcagcactta cattaagaaa attggctaca accccgacac agtagcattt       60

gtgccaattt ctggttggaa tggtgacaac atgctggagc caagtgctaa catgccttgg      120

ttcaagggat ggaaagtcac ccgtaaggat ggcaatgcca gtggaaccac gctgcttgag      180

gctctggact gcatcctacc accaactcgt ccaactgaca agcccttgcg cctgcctctc      240

caggatgtct acaaaattgg tggtattggt actgttcctg ttggccgagt ggagactggt      300

gttctcaaac ccggtatggt ggtcaccttt gctccagtca cgttacaac ggaagtaaaa       360

tctgtcgaaa tgcaccatga agctttgagt gaagcttttc ctggggacaa tgtgggcttc      420

aatgtcaaga atgtgtctgt caag                                            444


<210>  49
<211>  566
<212>  DNA
<213>  Homo sapiens

<400>  49
ctttgaagaa ctttgccaaa tactttctta ccaatctcat gaggagaggg aacatgctga       60

gaaactgatg aagctgcaga accaacgagg tggccgaatc ttccttcagg atatcaagaa      120

accagactgt gatgactggg agagcgggct gaatgcaatg gagtgtgcat tacatttgga      180

aaaaaatgtg aatcagtcac tactggaact gcacaaactg gccactgaca aaaatgaccc      240

ccatttgtgt gacttcattg agacacatta cctgaatgag caggtgaaag ccatcaaaga      300

attgggtgac cacgtgacca acttgcgcaa gatgggagcg cccgaatctg cttggcgga      360

atatctcttt gacaagcaca ccctgggaga cagtgataat gaaagctaag cctcgggcta      420

atttccccat agccgtgggg tgacttccct ggtcaccaag gcagtgcatg catgttgggg      480

tttcctttac cttttctata agttgtacca aaacatccac ttaagttctt tgatttgtcc      540
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attccttcaa ataaagaaat ttggta   566

<210> 50
<211> 400
<212> DNA
<213> Homo sapiens

<400> 50
ttttggggtt tatatataag cctggttctt gctgaaactg cttatgttga taaccagtta   60

gtgagttcct ctctattgac ttgctgggaa gtttatagag acatttttta tgcattcaga   120

gatttcagta caaatcttga aaaagggaca tttaggccgg gcgcggtggc tcacatctgt   180

aaccctagca ctctgggagg ctgaggtggg tggatcatga agtcaagaga tagagaccat   240

cctggcaaaa attagctggg cgtggtgggg tgcgcccgta gtcccagcta ctcgggaggc   300

tgaggcagga gaattgcttg agcccgggag gcggaggttt cattgagccg agatagtgcc   360

actgcactcc agcctggaca acagagcgag actgtgtctt   400

<210> 51
<211> 562
<212> DNA
<213> Homo sapiens

<400> 51
ctaagggttt aaagatggaa agaggcattg atgaacagct ggggaaggag tagtttgagg   60

tagatgtgca gatggaatga agagaaggtc tcaagaagag ggtggagcca agagggctg   120

cagatttaga aggctaaagt ctttagatgg ctttggatag cctgttgtat cttggaccat   180

gcaggttaca gtggagcatg gagtggggac agaagtggag gaaggaacca gggaacatgg   240

agtgagaagc taaaggaaag tgatgcagta gatacatggc tctaaagtac tcaggacttt   300

cagaggctta aacatagggt gaccaactat cccactatgc ctgatactaa gggcattccc   360

tggatgtgga cctttcattc cccaaattag gaaagtcttg ggcataccaa gacaagttgg   420

ccaccctact caaaagtatg taagctaaca tatctgttct ctaagaggtt aaagctggat   480

ggggatacca gatgtatgta cgtgatgcag ttaaacagca atacaagggg gcaagtctac   540

ctgatcggcc aattcaatgg ga   562

<210> 52
<211> 630
<212> DNA
<213> Homo sapiens

<400> 52
gaagccaaac caaaggagct tctacttcat gatgccattt atgtaaagtt caggcagaga   60

aaatcagtgg tttaagaagt tagaataatg attatctttg gagggattgc aactggaaga   120

agtcatgatt gggatttctg ggtcctaata gtgctctgtg tcttgatctg agtgccgact   180

acatgagtgg ttaggtttgc aaaattcatt gagttatgca cttaatggtg ttgtcttatt   240

agagctgatg gaggagagag ggcttcaatt tgcacaactg agtaatcagc taggcccagt   300

cactaggtga acaacttact gctccaatca gccttagagc aggaatcaaa ctcatgtctc   360

agaaaagtta ttaattcagc ttgtcttggg acttccttca gagtcactct tgaatagctg   420

aaatagtaaa tgttaaatct gtggatgcaa gtgtgtaaat tattttagtc atcagctcta   480

ataagatggc ctttgggggaa atgagtataa ggtcacgaaa atgaaatggc aagaaggagg   540

tctactattt cttctgtaat actgattttt accccatcag ggtcagtccc cagaggttgt   600

aaatgtgaag cttgtctttt tctttaataa   630

<210> 53
<211> 685
<212> DNA
<213> Homo sapiens

<400> 53
ctttggacac taggaaaaaa ccttgtagag agagtaaaaa atttaacacc catagtaggc   60

ctaaaagcag ccaccaatta agaaagcgtt caagctcaac acccactacc taaaaaatcc   120

caaacatata actgaactcc tcacacccaa ttggaccaat ctatcaccct atagaagaac   180

taatgttagt ataagtaaca tgaaaacatt ctcctccgca taagcctgcg tcagattaaa   240

acactgaact gacaattaac agcccaatat ctacaatcaa ccaacaagtc attattaccc   300

tcactgtcaa cccaacacag gcatgctcat aaggaaaggt taaaaaaagt aaaaggaact   360

cggcaaatct taccccgcct gtttaccaaa aacatcacct ctagcatcac cagtattaga   420

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ggcaccgcct gcccagtgac acatgtttaa cggccgcggt accctaaccg tgcaaaggta      480

gcataatcac ttgttcctta attagggacc tgtatgaatg gctccacgag ggttcagctg      540

tctcttactt ttaaccagtg aaattgacct gcccgtgaag aggcgggcat aacacagcaa      600

gacgagaaga ccctatggag ctttaattta ttaatgcaaa cagtcctaac aaaccccagg      660

                                                                       685
tcctaaactc caaacctgca ttaaa
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```
<210>  54
<211>  533
<212>  DNA
<213>  Homo sapiens
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```
<400>  54
cgacccggaa ttcgcggccg cgtcgactga gttcttgaca agagtgtttt tcccttcccg       60

tcacagagtg ggcccaacga cctacggcac tttgaccccg agtttaccga agagcctgtc      120

cccaactcca ttggcaagtc ccctgacagc gtcctcgtca cagccagcgt caaggaagct      180

gccgaggctt tcctaggctt ttcctatgcg cctcccacgg actctttcct ctgaaccctg      240

ttagggcttg gttttaaagg attttatgtg tgtttccgaa tgttttagtt agccttttgg      300

tggagccgcc agctgacagg acatcttaca agagaatttg cacatctctg gaagcttagc      360

aatcttattg cacactgttc gctggaagct ttttgaagag cacattctcc tcagtgagct      420

catgaggttt tcatttttat tcttccttcc aacgtggtgc tatctctgaa acgagcgtta      480

                                                                       533
gagtgccgcc ttagacggag gcaggagttt cgttagaaag cggacgctgt tct
```

```
<210>  55
<211>  523
<212>  DNA
<213>  Homo sapiens
```

```
<220>
<221>  misc_feature
<222>  (462)..(462)
<223>  n is a, c, g, or t
```

```
<400>  55
gaatccctag aaaaagagaa ttcccaactt gatgaggaaa acttagaact gcgaaggaat       60
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gtagaatctt tgaagtgtgc aagcatgaaa atggctcagc tacagctaga aaacaaagaa   120

ctggaaagtg aaaaagagca acttaagaag ggtttggagc tcctgaaagc atctttcaag   180

aaaacagaac gcttagaagt tagctaccag ggtttagata tagaaaatca aagactgcaa   240

aaaactttag agaacagcaa taaaaaaatc cagcaattag agagtgaact acaagactta   300

gagatggaaa atcaaacatt gcagaaaaac ctagaagaac taaaaatatc tagcaaaaga   360

ctagaacagc tggaaaaaga aaataaatca ttagagcaag agacttctca actggaaaag   420

gataagaaac aattggagaa ggaaaataag agactccgac ancaagcaga aattaaagat   480

ccacatttga agaaaataat gtgaagattg gaaatttgga aaa   523

<210>   56
<211>   566
<212>   DNA
<213>   Homo sapiens

<400>   56
ctttgaagaa ctttgccaaa tactttctta ccaatctcat gaggagaggg aacatgctga   60

gaaactgatg aagctgcaga accaacgagg tggccgaatc ttccttcagg atatcaagaa   120

accagactgt gatgactggg agagcgggct gaatgcaatg gagtgtgcat tacatttgga   180

aaaaaatgtg aatcagtcac tactggaact gcacaaactg gccactgaca aaaatgaccc   240

ccatttgtgt gacttcattg agacacatta cctgaatgag caggtgaaag ccatcaaaga   300

attgggtgac cacgtgacca acttgcgcaa gatgggagcg cccgaatctg gcttggcgga   360

atatctcttt gacaagcaca ccctgggaga cagtgataat gaaagctaag cctcgggcta   420

atttccccat agccgtgggg tgacttccct ggtcaccaag gcagtgcatg catgttgggg   480

tttcctttac cttttctata agttgtacca aaacatccac ttaagttctt tgatttgtcc   540
                                                                       566
attccttcaa ataaagaaat ttggta

<210>   57
<211>   616
<212>   DNA
<213>   Homo sapiens

<220>
<221> misc_feature
<222> (571)..(571)
<223> n is a, c, g, or t

<400> 57
gacccggaat cgcggccgcg tcgaccattt tagccaaggt gcctctatag gggtcaagac   60

atcatgtgcc cagacctaag gtcaggaatg tcatattttt ctgttaaaat cattttattt   120

ctgtgtatct tacctttaaa tcattgtggt ttactctgag attctgtagt cctaatattg   180

tatcattgtg ctgtctgcaa aacaacttga atctattttg tttgcatctt ttgttacatg   240

taacgcagct gtactttatg ttctttgcaa ctgtttccat tatgagaacg ctgtgctatt   300

tacaaggtta catttttctt ggccaggcga ggtggtcatg cctgtgatcc cagcactttg   360

ggaggccaag gtgggcggat cacttgaggt aaagagttga gaccagcctg ctagcatgg   420

cgaagcccag tctctactaa aaatacaaaa attggccggg tgaaattagc cgggcgtggt   480

ggtgtgtgct tgtaatccca gctactcggg aggctgaggc aggagaatcg cttgaatccg   540

ggaggcagag gttgcagtga gccaagatca ngccactgca ctccacctcg gggtcaagag   600

cgaaactctg tctcaa   616

<210> 58
<211> 598
<212> DNA
<213> Homo sapiens

<400> 58
ccgttttagt caggatggtc tcgatctcct gacctcgtga tccgcctgcc tcggcctccc   60

aaagtgctgg gattacaggc gtgagccacc gcgcccggcg taaatcaggt tttttaaatg   120

tttgccaaac cttatcactg acttttataa caaaattatt tactataatc attagggaat   180

atttaagttc tgctaatact taaaattgca gagtgctaaa accagcagtg agtttagaat   240

caagctaagc tttattgttg ctactatttg aggcatatta gttgactggt gttcatatgc   300

aaggcagtct actgggtgca acaagggtta gaaggatatt tttaaaaaac tgaccctatt   360

ctcaggatga aaataataca ctagtaatag tctgctctgt tggttaactc ctcgtaagga   420

ggtcaattaa aatgctgtag tgttgcaagg gaaggagagg aagaatcata ttccttcact   480

agcaggatca agaaagcttt tatagaaata tacaaaatct tcacttcttg aaggattggt   540

aaaatttaat agccaacatt gggcacttat tcattctctg agtaaatatt tattgcat   598

<210> 59
<211> 524
<212> DNA
<213> Homo sapiens

<400> 59
cttaaatcta aatggaccac attctctact taaaaaaatg ctattaacca tgtgatcttc   60

tcagtcatga ggtaatctgg tgactaccct tcctcaaagc cagttgggat attctttgaa   120

tagagtaaaa cagtgtttct aggctgggag acaccagaca tagttgagga cagaggtgct   180

agaaaatagg aagtttaaaa gcatgtgcgg tgatgctcag aggaggtaaa ccccaccctc   240

atgctcatag cttccaatca ttttctctag ttcttaactc ttaaatgtga gaaatgcttg   300

aagattacta gtcatctgaa gaaagtctct ttattaaaga ttttcataaa agagaccaaa   360

gcagacaaac agaaaaagac atcttgggga aaaaacaag gataatggga agagaaggaa   420

agttttaaaa attatcaata tcctcagggg gacaaaatat tatatcctat aaagacagat   480

ttttattttt taaaaaaata gaaagcaaaa caagctccta aaaa   524

<210> 60
<211> 534
<212> DNA
<213> Homo sapiens

<400> 60
gacccggaat cgcggccgcg tcgacggaag ctcctgcccc tcctaaagct gaagccaaag   60

cgaaggcttt aaaggccaag aaggcagtgt tgaaaggtgt ccacagccac aaaaagaagg   120

agatccgcac gtcacccacc ttccggcggc cgaagacact gcgactccgg agacagccca   180

aatatcctcg gaagagcgct cccaggagaa acaagcttga ccactatgct atcatcaagt   240

ttccgctgac cactgagtct gccatgaaga agatagaaga caacaacaca cttgtgttca   300

ttgtggatgt taaagccaac aagcaccaga ttaaacaggc tgtgaagaag ctgtatgaca   360

ttgatgtggc caaggtcaac accctgattc ggcctgatgg agagaagaag gcatatgttc   420

gactggctcc tgattacgat gctttggatg ttgccaacaa aattgggatc atttaaactg   480

agtccagctg cctaattctg aatatatata tatatatata tcttttcacc ataa   534

<210> 61
<211> 512
<212> DNA
<213> Homo sapiens

<400> 61
ggggagcccc ctcttccctc agttgttcct actcagactg ttgcactcta aacctaggga   60

ggttgaagaa tgagaccctt aggttttaac acgaatcctg acaccaccat ctatagggtc   120

ccaacttggt tattgtaggc aaccttccct ctctccttgg tgaagaacat cccaagccag   180

aaagaagtta actacagtgt tttcctttgc accgatcccc accccaattc aatcccggaa   240

gggacttact taggaaaccc ttctttacta gatatcctgg ccccctgggc ttgtgaacac   300

ctcctagcca catcactaca gtacagtgag tgaccccagc ctcctgccta ccccaagatg   360

cccctcccca ccctgaccgt gctaactgtg tgtacatata tattctacat atatgtatat   420

taaaactgca ctgccatgtc tgcccttttt tgtggtgtct agcattaact tattgtctag   480

gccaaagcgg gggtgggagg ggaatgccac ag   512

<210> 62
<211> 642
<212> DNA
<213> Homo sapiens

<400> 62
ttttggcatt acttaatcca attataaaaa ctgaattttt aaaaaacagc acttgttttt   60

tcttccaaga ttaatttgaa ttttttttatg gacattagaa aacattgcag tttagtcata   120

atcaaaaata aatcttgagg ctggtagagc agctttgttg ctgtttatat ttttattgct   180

tactggattt cagtgttacc tagtgccatc agtttggtat tttgccacct tgcacattca   240

gtgatgtttg atttttcttt ttcctttttt tcatattact tttaaatcct gaatagtttg   300

tggcagctgg agatcaccta gtccaccact gtccaacatg gcaatggtaa gtaatattga   360

gtaaagaata gaaaattagt aaaatgcatg gcttcagaat tatagcaatt tgcaaaatag   420

gttaatggat gaaaattaga atgaccagtt taactttccc cccagcagat tcttctgtta   480

aacaatgccc cttcaaaata aaggaagaac aagtgggtgt tataccatg ttatttggct   540

atgttagcac aatatgatgg actaatttga gaaaaagcat ttacttcctt tactattact   600

tctttcttt atagggctaa gtctgccttc tgggtctttg aa   642

<210> 63
<211> 446
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (441)..(441)
<223> n is a, c, g, or t

<400> 63
gaagaagcgc gaagagccgt tagtcatgcc ggtgtggtgg cggcggcgga gactgcgggc   60

ccgtagctgg gctctgcgag gtgcaagaaa gcctttgagg tgaaggtgta tgaaagtcat   120

cataacagat gttttccaaa aacttgtaga aggttgtgaa aaaactacta ggatcacgcg   180

gcatgtattg agcatatagg ttgctgtaga tgaatgttct tagctgtcat gtttaaaaat   240

acttctgctt cgttacctca agtgtggcat gcagcatttt ggaaggaaaa ttgaagacgt   300

gttcaagaaa acatgaacag aagcaaatga tgaaatgag cattttactt gatgttgata   360

acatcacaat aaattatgga gaaaaataca tatttggcta acttttaatt gctgaacaat   420

aaagtgtttt cttttaaatc naaaaa   446

<210> 64
<211> 629
<212> DNA
<213> Homo sapiens

<400> 64
gaagccaaac caaagggagc ttctacttca tgatgccatt tatgtaaagt tcaggcagag   60

aaaatcagtg gtttaagaag ttagaataat gattatcttt ggagggattg caactggaag   120

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aagtcatgat tgggatttct gggtcctaat agtgctctgt gtcttgatct gagtgccgac      180

tacatgagtg gttaggtttg caaaattcat tgagttatgc acttaatggt gttgtcttat      240

tagagctgat ggaggagaga gggcttcaat ttgcacaact gagtaatcag ctaggcccag      300

tcactaggtg aacaacttac tgctaccaat cagccttaga gcaggaatca aactcatgtc      360

tcagaaaagt tattaattca gcttgtcttg ggacttcctt cagagtcact cttgaatagc      420

tgaaatagta aatgttaaat ctgtggatgc aagtgtgtaa attattttag tcatcagctc      480

taataagatg gcctttgggg aaatgagtat aaggtcacga aaatgaaatg gcaagaagga      540

ggtctactat ttcttctgta atactgattt ttaccccatc agggtcagtc cccaaaggtt      600

gtaaatgtga agcttggtct ttttcttta                                       629
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<210>  65
<211>  366
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (270)..(270)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (280)..(280)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (310)..(310)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (359)..(359)
<223>  n is a, c, g, or t

<400>  65
gaccctattc tcaggatgaa aataatacac tagtaatagt ctgctctgtt ggttaactcc       60

tcgtaaggag gtacaattaa aatgctgtag tgttgcaagg gaaggagagg aagaatcata      120
```

ttccttcact agcaggatca agaaagcttt tatagaaata tacaaaatct tcacttcttg   180

aaggattggt aaaatttaat agccaacatt gggcacttat tcattctctg agtaaatatt   240

tattgcatgc ttatcttgta tcaacattgn gatgaaagcn caagaatgaa agaggaggga   300

gaatgtttan agaataaggc tgaaacacag attttgtagg gagcgtaggg gagactgana   360

aaacag   366

<210> 66
<211> 202
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (195)..(195)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (201)..(201)
<223> n is a, c, g, or t

<400> 66
aagacacctg atagattgtc ttgtattatt tttcctttgc cttcttacaa tctcagtgat   60

tagaattggg ctgaaaacaa tacatcaaat tctcagcaaa atccttatgg gttgctggat   120

accgagggtt tttaagatct ttagacttca ctatatagaa caaatgttga atgggaattt   180

tctttatttc tatancgttt ng   202

<210> 67
<211> 634
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (606)..(606)
<223> n is a, c, g, or t

<400> 67
cccggaatcg cggccgcgtc gacgatgagc attttttcat gtgtcttttg gctgcataaa   60

tgtcttcttt tgagaagtgt cggttcatat cctttgccca cttttttgatg gggttgtttt   120

tttcttgtaa atttgtttga gttcattgta gattctggat attagccctt tgtcagatga   180

gtaggttgcg aaaattttct cccatttttgt aggttgcctg ttcactctga tggtagtttc   240

atttgctgtg cagaagctct ttagtttaat tagatcccat ttgtcaattt tggctttttgt   300

tgccattgct tttggtgttt tagacttgaa gtccttgccc atgcctatgt cctgaatggt   360

aatgcctagg ttttcttcta gggttttgat ggttttaggt ctaacgtttc agtctttaat   420

ccatctttta aaagtctctt cacagtacat gagtagtagt gacaccaata atgtcagagc   480

agggaactcc caggttctgc ccatccacaa aaacaacaaa taagctggca aaaactttaa   540

gaatcaactt ttgcagatct ctgaaatcta gtcaaaactt aaacagagga aagattaata   600

aagacnggct gcctgagata acactaacac acac   634

<210> 68
<211> 644
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (92)..(92)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (642)..(642)
<223> n is a, c, g, or t

<400> 68
catcaaataa ataaataaat aaattttaaa agtcacagca ttgaatttttt aaatgtttgg   60

gatgataaag cacctgctta tcatgaagct anagaaattc aatgacacgt ttgccagggt   120

ctttgctagt gatgttggaa caagtctgta atgctgatga aacatcactg ttcgggcatt   180

attgccccag aaagacactg actgcagctg atgaaacagc ccttccaaga attaaggatg   240

ccaaagacca ataactgtg ctgagatata cttacgcagc aggcatgcat aagtgtaaac   300

ttgctgttat aagcaaaagc ttgcgttctc actgtttttca aggagtgaat ttcataccaa   360

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```
tccattatta tgctaataaa aaggcatgga tcaccaggga catcttttca gattggtttc        420

acaaacattt tgtaccagca gcttgtgctt actgcaggga agctgactgg atgatgactg        480

caagattttg ttatatctta acaactgttg tgctcatcct ccagctgaaa ttctcatcaa        540

aaataatgtt tatggctcac acctgtaatc tcaacacttt gggaggattg cctgacccag        600

gagttcaagc ccaccctggg caacacagca agacccaacc tntc                        644
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<210> 69
<211> 651
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (44)..(44)
<223> n is a, c, g, or t

<400> 69
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ttttaaaaat cataaaacgt ttcttacaaa agagcattac attntgcaca ctgctctgaa        60

cagatgccag ggacatgtgg actattgtta cttttcctcc ctgtcccacc ccccaaatgt       120

tacagtgacc acaaagcaag gtgttcacaa taattacatg gggggaattt tttaaaccac       180

caacaataac gaaaaataaa atccactcac tctgctgctg tttcaaaatt tcaatgttag       240

tttttgcacg cccttccccc ccccaaccct gtttgtaagg aactaaaaca ttacatctgg       300

tgaacagcaa agatttcact acacctcaaa tgcagaacac ctatgaagca gaggaatgtt       360

ggctttttaa acagaagcag ataaaaaaaa aagatgcagg actccttcag ttcttcacta       420

gtcttagaaa aactttccag aatactgctt cacactataa aaaagaaaaa atatcttgca       480

ttagaatcct tcaacatctg catactgctt cacactgttc gtttctagga gcactttgtc       540

acaggacact tctgcttata tttctttaat cagaacttag ttggatgggc cgggcatggt       600

ggctcacgcc tgtaatccca gcactttggg aggccgaggg ggtggatcac c                651
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<210> 70
<211> 752
<212> DNA
```

<213>    Homo sapiens


<220>
<221>    misc_feature
<222>    (684)..(684)
<223>    n is a, c, g, or t

<220>
<221>    misc_feature
<222>    (707)..(707)
<223>    n is a, c, g, or t

<220>
<221>    misc_feature
<222>    (709)..(709)
<223>    n is a, c, g, or t

<220>
<221>    misc_feature
<222>    (713)..(713)
<223>    n is a, c, g, or t

<220>
<221>    misc_feature
<222>    (723)..(723)
<223>    n is a, c, g, or t

<220>
<221>    misc_feature
<222>    (734)..(734)
<223>    n is a, c, g, or t

<220>
<221>    misc_feature
<222>    (746)..(746)
<223>    n is a, c, g, or t

<220>
<221>    misc_feature
<222>    (748)..(748)
<223>    n is a, c, g, or t

<400>    70
ccatctccaa atttagtatt cattctgttt agcatattat cagttgccat ctatttgttt      60

taactgatta cttgaatctg attaaacatc acagaaatgg gctttgataa gaacaatatt     120

gaataagaaa ttttaaataa caaaacagct tatagaaaaa ttcagcataa cttttccatc     180

```
accttcacca cccttgcctt ttattatcct gtcctgtatc actgctttct gttagcagtg    240

ttgtgtgagt taggatttgg gcaggaaagc aaaagcaacc accgtcatt ttcccagaat    300

gaagggtttg acgtaggatg tagactttgt atagtagttg ggagagctgt gggagtgaag    360

gtcagggatg tcacctacag aagtcaggga atctgccacc agagatcctg catcagaaac    420

agccaacagc gtgcttctga agaactagtg gggaagtggc tataattctt aggaatccca    480

gcaagtccgc accactgtct cagtctacag cagtggagaa aggggtttcc aggagctctc    540

tggaaagttc ctgcccacac tttgcaacaa tcttcagagg ataatgggct tctcttccag    600

cttccacacc caacaagagt gcctttcatc ggccaactct aacctggaac cctatggcag    660

aggggattta ggagacagtt tgtnatgtct gtggaatgca aatgaanang tancaatgct    720

                                                                    752
tanttgacag cggncataca caaatntnga aa
```

<210> 71
<211> 12
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is a, c, g, or t

<400> 71   12
gatccgtnga ct

<210> 72
<211> 505
<212> DNA
<213> Homo sapiens

<400> 72
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ctcttcccag ccctgagcc cagccccttc ccaagtggtg ccagacaaaa aactacatgg    60

cccttcgtg tcttgggggt ggaaagggag ggatgaattg gggtgataga accctggtga    120

attcagagta atctttcttt agaaaactgg tgttttctaa agaaacagga taggagttta    180

gagaaggcac caaagctttc actttggttt ggcaccagtt ctaaccatc tgttttttct    240
```

accctagcta tcttttattg gtaaaatata aatgtataat tatgtttgta gagctttacc   300

aaggagtttc cctccttttt tgtttgttga ttagcaaatt tttgattctc cattttccaa   360

aagtaagaga ctccagcatg gccttctgtt tgccccgcag taaagtaact tccatataaa   420

atggtatttg aaagtgagag ttcatgacaa cagaccgttt tccatttcat ctgtatttta   480

                                                                           505
tctccgtgac tccacttgtg ggttt

<210> 73
<211> 505
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (280)..(280)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (342)..(342)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (500)..(500)
<223> n is a, c, g, or t

<400> 73
tggagctgaa aaattcctat tacctagggg catcacaacg cattgcattt cgcccgtgtt   60

tgggatgatg ctggtgtaaa cctactatgc tgccagtcat gtaaaagtat agcacacaca   120

attagtaggt aatgcttgca aataataatg aaagactctg ctactggttt atgtatttac   180

tatgctatac ttttgtcat tactttagag tgtactccta cttttttttt tttttttttt   240

gagatggagt ttcactcttg tcctgtaggc tggagcgaan tggcgcgatc tcggcttact   300

gcaacctcca cctcctgggt tcaagcgatt ctcctgcctc anctcccag agtagctgag   360

attacaggca tgcaccgcca cgcacgggta attttgtatt tttggtagag acagggtttc   420

accatgttgg ccaggctggt caccaactcc tgacctcagg tgacccgcct cctcacctcc   480

                                                                           505
agagtgttgg gattacaggn gtgag

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<210>  74
<211>  580
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (552)..(552)
<223>  n is a, c, g, or t

<400>  74
ataaaaatta gctggggggtg atgggccctg tacccccagct actcgggagg tgaggtagga    60

gaatcacttg aacccgggag atggaggttg cagtgagcca agatcgtgcc actgcactcc   120

agcctgtgtg acagaacaag actctgtctc aaaaaaaaat aataataata ataataataa   180

aaaggaataa catagctagg aataaattta atcaaagagg tgaaagactt atacacttaa   240

aactacaaaa aaaaaatcac tgaaggaatt atagacccaa ataaaaataa ataaaaagac   300

attctgtgtt ttagggaaag aagacttaat attgttaaga tgtcaatact acccaaagtg   360

atctacagat tcaacataat ccctatcaaa attccaacag cctactttgt agaaatggaa   420

aagccaattt tcaaattcag atggaattgc gaggggttct gaataacaaa acacaatctt   480

ggggaaaaaa aacaaaaaac aaagtcaaag aactcacact tctctattta taatttacta   540

                                                                    580
caaagttata gnatcaaagt cgacgcgccg cgatccgggc


<210>  75
<211>  535
<212>  DNA
<213>  Homo sapiens

<400>  75
cacagtactc cattttgggg tccaaactgt aatgctcaaa ataataaatg cttacacgaa    60

aattatttat tgagaatatt catataaaaa ttacctaaag caaagtaaaa aaagtaaaat   120

caaggtggta tatttgaagt gaatggtgat tggaaatttt tagctgtaac aaaaagaaag   180

aaaacaactt ttttaaagc ctcattctct tttctttcaa aatgtacctt attcccacac   240

actcttgggc tgacctttat tttatcaata agctcaatat tactttgttt aaaataagat   300
```
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```
gcttcagcaa aagtcattct ctctttaacc atataattta aaaactcctc ttcacgattg      360

atagcaaaat cagaaacgtt agggcaccag tgagttgaaa aaactggtct taagttggaa      420

aaactattat taataatatt atcctatcca tccatatcta ttgaaattgt caggtccata      480

atttcatttt aattaattat aggaaagaag aaaagataat acccatttgt tctat          535


<210>  76
<211>  505
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (461)..(461)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (483)..(483)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (497)..(497)
<223>  n is a, c, g, or t

<400>  76
ctcagactct ttctgcccta atggccatta ctatccagtc tgtattgcta caagggaccc       60

actggtaccc cttttagatt ctatcaaaag gaacagggtt ttcctagagg caggcagcct      120

ggtggtatgg cacagcagaa gcttactgct aatgaaatgg gaacctcccc ctcccttgtg      180

gtttcagcac agaacctgaa tgccaggaaa aattcctggg ccaagaagct aaagctaaag      240

aaaccttcct tttttcaacg ttttttttttc tttcaaactg tagggtcact tttgattgag      300

gcaaaggggt cctactgtaa gtggaaaaga ctcactcccc taacataagt tttcactgtg      360

gtgggatggt gccgcccgat atgcttgata tgcttttcct tccacatgtt aagctaggaa      420

acctaacagg atgtcagcag ggcagttaac tctggactca nagccctcaa gggcatgtgg      480

                                                                       505
canaacctca tggcatncaa gacca
```

```
<210>  77
<211>  596
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (567)..(567)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (575)..(575)
<223>  n is a, c, g, or t

<400>  77
gtataattga ttcttttgaa cctaaagtat aagacttcac gattagaaaa aaattatcca     60

aagactaatg taattaagtg aggaaaaggt gctggaggaa ctggataacc acatggaaat    120

gtatgaacca tgacctctat gtcacatact atatataaaa cttaatttga ggtgtatcac    180

agagctaact gtgggggcta aaacgttgaa gcctttggat ggccgcacaa gagatgtctg    240

cattcataac cttggggagg gtatgaacat ttcttggtaa catgcaaaaa gcactaactg    300

taaaagagaa cagttggtca gttgaatttc atgaaacatt gtaaacttct gctaaacaac    360

tgacaccatt aagaatgtgg aaaaaggctg ggcacagtgg ctcatgccta taatcccagc    420

attttgggag gccggggcgg gagaatcact tgaggccagg agtttgaaac cagcctgggc    480

aacatggcaa gacccccgact ctacaaaaat attttttaaaa attagttggg tgtggtgatg    540

cactcctgta gtcctagctg ccaggangct aaggnggaag gatcacttaa ccctgg        596



<210>  78
<211>  504
<212>  DNA
<213>  Homo sapiens

<400>  78
ctggtggcgg cggtcgtgcg gacgcaaaca tgcagatctt tgtgaagacc ctcactggca     60

aaaccatcac ccttgaggtc gagcccagtg acaccattga gaatgtcaaa gccaaaattc    120

aagacaagga gggtatccca cctgaccagc agcgtctgat atttgccggc aaacagctgg    180
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aggatggccg cactctctca gactacaaca tccagaaaga gtccaccctg cacctggtgt   240

tgcgcctgcg aggtggcatt attgagcctt ctctccgcca gcttgcccag aaatacaact   300

gcgacaagat gatctgccgc aagtgctatg ctcgccttca ccctcgtgct gtcaactgcc   360

gcaagaagaa gtgtggtcac accaacaacc tgcgtcccaa gaagaaggtc aaataaggtt   420

gttctttcct tgaagggcag cctcctgccc aggccccgtg gccctggagc ctcaataaag   480

                                                                      504
tgtccctttc attgactgga gcag

<210> 79
<211> 564
<212> DNA
<213> Homo sapiens

<400> 79
gcaggggctt ctgctgaggg ggcaggcgga gcttgaggaa acccgcagat aagttttttt   60

ctctttgaaa gatagagatt aatacaacta cttaaaaaat atagtcaata ggttactaag   120

atattgctta gcgttaagtt tttaacgtaa ttttaatagc ttaagatttt aagagaaaat   180

atgaagactt agaagagtag catgaggaag gaaaagataa aaggtttcta aaacatgacg   240

gaggttgaga tgaagcttct tcatggagta aaaaatgtat ttaaaagaaa attgagagaa   300

aggactacag agccccgaat taataccaat agaagggcaa tgcttttaga ttaaaatgaa   360

ggtgacttaa acagcttaaa gtttagttta aaagttgtag gtgattaaaa taatttgaag   420

gcgatctttt aaaaagagat taaaccgaag gtgattaaaa gaccttgaaa tccatgacgc   480

agggagaatt gcgtcattta aagcctagtt aacgcattta ctaaacgcag accaaaatgg   540

                                                                      564
aaagattaat tgggagtggt agga

<210> 80
<211> 270
<212> DNA
<213> Homo sapiens

<400> 80
cccggaatcg cggccgcgtc gacgggaggt gatagcattg cttcgtgta aattatgtaa   60

tgcaaaattt ttttaatctt cgccttaata cttttttatt ttgttttatt ttgaatgatg   120

```
agccttcgtg ccccccttc cccttttttt gtccccaac ttgagatgta tgaaggcttt        180

tggtctccct gggagtgggt ggaggcagcc agggcttacc tgtacactga cttgagacca        240

                                                                        270
gttgaataaa agtgcacacc ttataaaaaa
```

```
<210>  81
<211>  268
<212>  DNA
<213>  Homo sapiens
```

```
<400>  81
cccggaatcg cggccgcgtc gacgggaggt gatagcattg ctttcgtgta aattatgtaa        60

tgcaaaattt ttttaatctt cgccttaata cttttttatt ttgttttatt ttgaatgatg        120

agccttcgtg ccccccttc cccttttttt gtccccaac ttgagatgta tgaaggcttt         180

tggtctccct gggagtgggt ggaggcagcc agggcttacc tgtacactga cttgagacca        240

                                                                        268
gttgaataaa agtgcacacc ttataaaa
```

```
<210>  82
<211>  334
<212>  DNA
<213>  Homo sapiens
```

```
<400>  82
cttcatttga aatggttgaa tctgctgtgt aataaagtgg ttcaaccatg attaggaact        60

gaaatttagt agaagaggga aaaggagtta atgtaacaaa ttattttagc tacaaacccc        120

ggtaatagag cacttggggg atgggatggg gtgggttggt gagacaatca gaatggtaaa        180

ttgattaaat gctcctaacc ctgtaatttt gtgcatagag caccctatgc tgtggaaata        240

actgttctta gatttcattg taactggact gttcaggttg cccagaggga aagaacattc        300

                                                                        334
ctaattctaa taaaataaac ttttattttg ttta
```

```
<210>  83
<211>  675
<212>  DNA
<213>  Homo sapiens
```

```
<400>  83
```

```
tgtcattgaa tctgcttgtt acttaaatgc taaactcaat tctgtaattc aataggtgca        60

cctctctgag aaacataaga gacaatgagg aaaaggattc agcattccgt ggaatttgta       120

ccatgatcag tgtgaatccc agtggcgtaa tccaagtaag atgttcacaa agatttgttt       180

ttaatgtcta attaataaaa ttttaaagga agaaacattc taatacttta attataaaaa       240

gttaactatt ttcaaaggta tcaaaataca gttaaacctt taaaatgtat atttcttaat       300

atcttgaaat tgtaatgcct ttttttttc ctaaattttt tttgtcatga aatgagatag       360

taacagcaga ttgggacaac aaggttatat tcttgtcttg aatcaggcca tggcttcttt       420

catccaaatt tcagacctca tttatttact ttgtccctgc ctcccatccc tggatatcag       480

tttgtggata tctacagtta atagagtgac caaatagtag gaatactgtc tctctattct       540

gaataaaatc tttgaatcag atttagaaat aatgaataaa atacaaatca gccattgaaa       600

ttgctctaat tttgagagct tatgatttat tcatctttgg tttccaagtt caagttatat       660

                                                                         675
gtagacattt taatt
```

```
<210>  84
<211>  485
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (223)..(223)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (280)..(280)
<223>  n is a, c, g, or t

<220>
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<222>  (297)..(297)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (302)..(302)
<223>  n is a, c, g, or t
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<220>
<221> misc_feature
<222> (337)..(337)
<223> n is a, c, g, or t

<400> 84
gcttcctagg tgaggtcacg aggaaacctg ctggccaagt gacctggcag ggtgtggcca   60

gtgtggccag ggccgccgag cctgctttcc ttccctgcag caggaaccct tctggggctg   120

tgatcctgcg atggtgcctg ggtgggagtg ggggtggggg gcgggatggt ctccctacct   180

gccagcttct tggtttgagg tgaggacagc cccggaagct canacttggc tcctgtccat   240

gtacttgggg ccatgagctc tgcagggacc ttggaaagan agagacgggt ggtgtanggc   300

angggaaggc attgtcttca aacaggaaaa agctganaat ggaaacaggc gaaacttacc   360

aagtgtaaca tcacctggaa ctgaaggagg gtgggaaggt tttaattatt ttaaaaatag   420

agatggggtc tcactatgtt gcccaggctg gtctcaaact actgggctca agtgaacctc   480

cttct   485

<210> 85
<211> 387
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (9)..(9)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (29)..(29)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (49)..(49)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (94)..(94)

<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (105)..(105)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (152)..(152)
<223> ·n is a, c, g, or t

<220>
<221> misc_feature
<222> (169)..(169)
<223> n is a, c, g, or t

<400> 85
tgtttctcna gggcgagagg ctgtcttana gcaccattct ctggccctng tcccatgaga   60

aggaaccgca ctcaggagcc acactctccc actncccttg cccanaagac tcacagaggg   120

cacggagctg gctgtggtga gaggaggtcc ancaaattcc tgtctgcana agggttctga   180

acaccaccgc ctggcagcgt gctggaggag ggattcctct tttcctcaca gcaattctga   240

ccagaaacct gtcaaatcag gaatggctaa aataagacca gggtatgaat gaccatcagc   300

cacagtaaaa ccaaggcaca gctctcctga gcccacccaa gctgctgtgg cccagactgg   360

tgacatcacc tcagggcaaa aaaaaaa   387

<210> 86
<211> 420
<212> DNA
<213> Homo sapiens

<400> 86
cgcagaatgg ctcccgcaaa gaagggtggc gagaagaaaa agggccgttc tgccatcaac   60

gaagtggtaa cccgagaata caccatcaac attcacaagc gcatccatgg agtgggcttc   120

aagaagcgtg cacctcgggc actcaaagag attcggaaat ttgccatgaa ggagatggga   180

actccagatg tgcgcattga caccaggctc aacaaagctg tctgggccaa aggaataagg   240

aatgtgccat accgaatccg tgtgcggctg tccagaaaac gtaatgagga tgaagattca   300

ccaaataagc tatatacttt ggttacctat gtacctgtta ccactttcaa aaatctacag   360

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acagtcaatg tggatgagaa ctaatcgctg atcgtcagat caaataaagt tataaaattg        420


<210>  87
<211>  675
<212>  DNA
<213>  Homo sapiens

<400>  87
ggaaactgat gccagtcaga aactcagatc aaatgaaggg gtgaagagaa ccagaattga         60

tctctctgta ggagaatata aatgactttt ttaaagtaca tattttctgt gaaagacagt        120

tttttgttta atgcaaaaat gttaacaatg tttatatcat gtagaagtaa aagatcgtga        180

aacagcacag agaacagtag taagacagat tgaattgcac tgttgtaaga tgatgaactt        240

acaatattaa gtgaaggtag actgtgatag attaaggata tatattgtaa tccctagagc        300

aattgtcaaa gtggtacagg taaaaagcca atagaggtga taaaatggaa tactaaaaaa        360

tatcagatga ataataaaga agacaggaaa tgaggaacag tggaacagaa tgaataaaaa        420

acaagaccat taacttaatc attaataatt actttaaatg ggttaaacat tatggttata        480

aggcagagat tttcagacta gataaaagag caagctccac tatatactgt ctacaagaga        540

tatactttaa agtgtatatt atatttaaat ataaagattt ggaataaata aacctaagaa        600

taagcttact agggaagtga aagatctgta caacaagaat tacaaaacac tgctgaacga        660

aatcataggt gacca                                                         675


<210>  88
<211>  594
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (529)..(529)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (542)..(542)
<223>  n is a, c, g, or t
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<220>
<221> misc_feature
<222> (559)..(559)
<223> n is a, c, g, or t

<400> 88
gtcccggaat cgcggccgcg tcgacgtttc ctcaaaattt atcttcctgt taatgtcagg   60

catgtatctc cttagcttgc cacaaataac tatatatacc acagaccttc ctttgtaggg   120

ctaacagtgt tgcattgtaa gtggaggcct catagatacc tggccttttc ctaccttatt   180

ccaaagatgg ttgcatctta taaataatgt cattcttcag caaatggtat ggaaatgaga   240

ttgtaatgtc attatttcct ctttaaataa tcaggacaac tcatgataca aagagctctt   300

ctctataaaa ggtgggactt tttttttag taatagcaaa aataaaattg tacctcctta   360

atcttctaca gaaagatgga tttcattttc aacattaaga ggtagtttta agaagcagta   420

gaagtcagcc tgggcagcat ggtgaaaccc cgtctctaca aaaaagttag ctgggcttag   480

tagttgcaat cccagctact ctggaggctg aggttggaga tcatctganc ctggggaggt   540

cnaggctgca atgatacant gagccctgat tgtgccactc cacctggttg caga   594

<210> 89
<211> 530
<212> DNA
<213> Homo sapiens

<400> 89
ttccaatctt cgtgttcact ttaagaacac tcgtgaaact gctcaggcca tcaagggtat   60

gcatatacga aaagccacga agtatctgaa agatgtcact ttacagaaac agtgtgtacc   120

attccgacgt tacaatggtg gagttggcag gtgtgcgcag gccaagcaat ggggctggac   180

acaaggtcgg tggcccaaaa agagtgctga attttgctg cacatgctta aaaacgcaga   240

gagtaatgct gaacttaagg gtttagatgt agattctctg gtcattgagc atatccaagt   300

gaacaaagca cctaagatgc gccgccggac ctacagagct catggtcgga ttaacccata   360

catgagctct ccctgccaca ttgagatgat ccttacggaa aaggaacaga ttgttcctaa   420

accagaagag gaggttgccc agaagaaaaa gatatcccag aagaaactga agaaacaaaa   480

acttatggca cgggagtaaa ttcagcatta aaataaatgt aattaaaagg   530

<210> 90
<211> 381
<212> DNA
<213> Homo sapiens

<400> 90
tgcaggatcc gtcgactcta gataacatgg ctagaaaaga gaatgaaaaa gttggaattt   60

ttaattgcca tggtatgggg ggtaatcagg ttttctctta tactgccaac aaagaaatta   120

gaacagatga cctttgcttg gatgtttcca aacttaatgg cccagttaca atgctcaaat   180

gccaccacct aaaaggcaac caactctggg agtatgaccc agtgaaatta accctgcagc   240

atgtgaacag taatcagtgc ctggataaag ccacagaaga ggatagccag gtgcccagca   300

ttagagactg caatggaagt cggtcccagc agtggcttct tcgaaacgtc accctgccag   360

                                                                             381
aaatattctg agaccaaatt t

<210> 91
<211> 535
<212> DNA
<213> Homo sapiens

<400> 91
cacagtactc cattttgggg tccaaactgt aatgctcaaa ataataaatg cttacacgaa   60

aattatttat tgagaatatt catataaaaa ttacctaaag caaagtaaaa aaagtaaaat   120

caaggtggta tatttgaagt gaatggtgat tggaaatttt tagctgtaac aaaaagaaag   180

aaaacaactt tttttaaagc ctcattctct tttctttcaa aatgtacctt attcccacac   240

actcttgggc tgacctttat tttatcaata agctcaatat tactttgttt aaaataagat   300

gcttcagcaa aagtcattct ctctttaacc atataattta aaaactcctc ttcacgattg   360

atagcaaaat cagaaacgtt agggcaccag tgagttgaaa aaactggtct taagttggaa   420

aaactattat taataatatt atcctatcca tccatatcta ttgaaattgt caggtccata   480

atttcatttt aattaattat aggaagaag aaaagataat acccatttgt tctat   535

<210> 92

<211> 619
<212> DNA
<213> Homo sapiens

<400> 92
caggggcttc tgctgagggg gcaggcggag cttgaggaaa ccgcagataa gtttttttct   60

ctttgaaaga tagagattaa tacaactact taaaaaatat agtcaatagg ttactaagat   120

attgcttagc gttaagtttt taacgtaatt ttaatagctt aagatttttaa gagaaaatat   180

gaagacttag aagagtagca tgaggaagga aaagataaaa ggtttctaaa acatgacgga   240

ggttgagatg aagcttcttc atggagtaaa aaatgtattt aaaagaaaat tgagagaaag   300

gactacagag ccccgaatta ataccaatag aagggcaatg cttttagatt aaaatgaagg   360

tgacttaaac agcttaaagt ttagtttaaa agttgtaggt gattaaaata atttgaaggc   420

gatctttttaa aaagagatta aaccgaaggt gattaaaaga ccttgaaatc catgacgcag   480

ggagaattgc gtcatttaaa gcctagttaa cgcatttact aaacgcagac gaaaatggaa   540

agattaattg ggagtggtag gatgaaacaa tttggagaag atagaagttt gaagtggaaa   600

                                                                    619
actggaagac agaagtacc

<210> 93
<211> 131
<212> DNA
<213> Homo sapiens

<220>
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<222> (70)..(70)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (75)..(75)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (88)..(88)
<223> n is a, c, g, or t

<220>

<221> misc_feature
<222> (102)..(102)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (114)..(114)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (127)..(127)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (129)..(129)
<223> n is a, c, g, or t

<400> 93
cgctgggtgc ctgcagcgcc tcccttgtct catatggtgt gtccagcact ctattgttgt   60

aaactgttgn tttgnctgac ctaaattntc tttactaaac anatttaata gttnaaaaaa   120

aaaaaananc a   131

<210> 94
<211> 607
<212> DNA
<213> Homo sapiens

<400> 94
ttttaaagtc atctctatag gaaggtgctg ggcagggatc ccagagaaag aaagggtcca   60

agactccatt aactgccctg gatgaagggc actgctacag cagctagtac cagagactct   120

cctatctcac ggttgaggca gacccaggat agaatagaga ataaaaggaa tgcttatagg   180

aaacaatttt gtatggaatg ctagatggcc aagcctcagc ctttggtcca gtgcaaccct   240

tgcctcgctt gtcaacagtg aaaaattagt ttggttagaa gaaccatctg gaaacacacc   300

agcttctgct accttcatgc tcattgttaa aaaaagatta accagtgtga acattctgat   360

ctgttaattc cagggactgt tttctttcca atggactgtt tgttggtaga ataacccca   420

aaagctcaaa gctaaaatgc atcatcagtc ctagtcggca gttccttaag aatggactgg   480

cggcgtggtt gagctgatat ggaaaagctg caccttcctg cagaagatca actgacctgc   540

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tatcccaccc caaatttcaa cctgaggtat atttcaatga aggcaggtag ctgtgcttct        600

cagagca                                                                  607


<210>   95
<211>   687
<212>   DNA
<213>   Homo sapiens


<220>
<221>   misc_feature
<222>   (650)..(650)
<223>   n is a, c, g, or t

<220>
<221>   misc_feature
<222>   (685)..(685)
<223>   n is a, c, g, or t

<400>   95
tcccggaatc gcggccgcgt cgacccgccg ccgaggattc agcagcctcc cccttgagcc         60

ccctcgcttc ccgacgttcc gttccccct gcccgccttc tcccgccacc gccgccgccg        120

ccttccgcag gccgtttcca ccgaggaaaa ggaatcgtat cgtatgtccg ctatccagaa        180

cctccactct ttcgacccct ttgctgatgc aagtaagggt gatgacctgc ttcctgctgg        240

cactgaggat tatatccata taagaattca acagagaaac ggcaggaaga cccttactac        300

tgtccaaggg atcgctgatg attacgataa aaagaaacta gtgaaggcgt ttaagaaaaa        360

gtttgcctgc aatggtactg taattgagca tccggaatat ggagaagtaa ttcagctaca        420

gggtgaccaa cgcaagaaca tatgccagtt cctcgtagag attggactgg ctaaggacga        480

tcagctgaag gttcatgggt tttaagtgct tgtggctcac tgaagcttaa gtgaggattt        540

ccttgcaatg agtagaattt cccttcctcc cttgtcacag gtttaaaaac ctcacagctt        600

gtataatgta accatttggg gtccgctttt aacttggact agtgtaactn cttcatgcaa        660

taaactgaaa agaccatgct gctantc                                           687


<210>   96
<211>   462
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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (204)..(204)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (255)..(255)
<223> n is a, c, g, or t

<400> 96
ttcggacgca agaagacagc gacagctgtg gcgcactgca aacgcggcaa tggtctcatc   60

aaggtgaacg ggcggcccct ggagatgatt gagccgcgca cgctacagta caagctgctg   120

gagccagttc tgcttctcgg caaggagcga tttgctggtg tagacatccg tgtccgtgta   180

aagggtggtg gtcacgtggc ccanatttat gctatccgtc agtccatctc caaagccctg   240

gtggcctatt accanaaata tgtggatgag gcttccaaga aggagatcaa agacatcctc   300

atccagtatg accggaccct gctggtagct gaccctcgtc gctgcgagtc caaaaagttt   360

ggaggccctg gtgcccgcgc tcgctaccag aaatcctacc gataagccca tcgtgactca   420

                                                                      462
aaactcactt gtataataaa cagttttttga gggattttaa aa

<210> 97
<211> 535
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (248)..(248)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (519)..(519)
<223> n is a, c, g, or t

<400> 97
ctgcaatgtg caatagttgc accactgcac tccagcctgg gtgacagagt gagaacctat   60

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ctcttaaaaa aaaaaaaaa aaaaggaaga agagacatga gagggcccaa gtcacttgct     120

cactcacttt ccgtgtacat gtaccaagaa aaggccatgt gggaaagagc aagaaggcag     180

ccgccttcaa gacaggaaga gagccctcac cagaaactga gccagaacct tggaattcca     240

gcctccanaa ctgtgagaaa agaattttct gttgtttcag tcccccacac tatggcattt     300

tgttacggca gcctgagcta atactcctac tttgtcctgc atttacttgg tcttccagtt     360

agttttttag actttgggaa tcagagcagt cagttgtcag attttagctt acagttgtcc     420

tacctgtgca actgaaattt cttccatttt aaaccagagc agagtttttag agtcaaaaga     480

aaccagatct tttagtgcag aagctttcca ctgtattana agtgaggaag ttggt     535
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<210> 98
<211> 512
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (425)..(425)
<223> n is a, c, g, or t

<400> 98
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aaaaaaactc cagagaagtt tatagaaaga gatgacatgt aaaccctgct gaaaaatagt      60

ttcatttgtt agaatataat tgtcttccac taaaaaaaga aaaaaaaag catttaaggc      120

tctaagatct cttgaagtac cacttttcct gaatcccaga gttttatgt gcattatttt     180

tatgcgtttg tagtttgata tgttgtattt ataagtagtt ttagctttcc attatgaatt     240

cttctttgac ccatgagtta tttaggtaag tgtttaaaaa tttacaatag tttatatatg     300

caaatattat gttgttagag ttggttttca tgtcatttt acatatacag gggcagtttc      360

cccaactaaa ttgtatattc cttaaagcag cactcttaaa ttttatttct gtgtcaattt     420

cttgnctgtg tttcctggca tggaatacat ggcataaaat ttgttatgta attaaatgaa     480

atattattat actttctatt ttttagaaaa aa                                  512
```

<210> 99

<211> 577
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (552)..(552)
<223> n is a, c, g, or t

<400> 99
gtcgacaggg atgacataac tattagtggc aggttagttg ttggtcactt tcaactctgg   60

gttcaagcga ttctcctacc tcagcctccc gagtagctgg gattacaggc atgcaccgcc   120

acacctaatt ttctattctt agtagagacg gggtttctcc ctgttggtca ggctggtctc   180

gaactcccga cctcaggtga tctgcctgcc tcagtctccc aaagtcctgg aaccacagac   240

atgagccacc acgcctggcc ccttttaaaa tatttctgct cattgatgat gcacccagtc   300

acccaagtgc tctgatggag atgtataagg agatgaatgc tgttttcatg gctgctaata   360

caacattcat tctgcaaccc ccaaatcaag aagtaatttt gactttcaag tcttattatt   420

taagaaatat attttgcaag actatagctg ccatagaccg tgattcctct gatggatcag   480

acaaactaaa atgaaaacct cctgcaacgt attcatcatt ctagatccct gaggaatcgc   540

cacactgact tncacaatgg gtgaactggg ttacagt   577

<210> 100
<211> 552
<212> DNA
<213> Homo sapiens

<400> 100
aaacaaaatt attctctgag agggaaagga catttgaggg aaacatcaaa tttccccata   60

aataaatgaa tggagtttgc aggaaggtga gggtgagcag agatgtgtgt ggacatctct   120

gaccatccat cgctgtattc aaatggattg ttttattcca ttctggtctc aggcatgacc   180

acgtccagtg aagacatttg aggcagcaca tctcaggacc caggcaatag actggcccca   240

actcaggctg gactaaggtg tgattaattc tttgtttttt gtgtggaaca gctcaccttg   300

tcagacagcc tcagggcatc tctgagacac aggggcagaa aatgacattc atcttttgag   360

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tcctcatcca tggagtgctg tgtttggggg gctgcatctg ctgaagcgag aacccccattc      420

tgccacccca ccaggatgcc cattctccag gacttctcca acttactatt agactaaacc      480

agaacaagca acaaactgta tttatgcaag caaaattgat gagaaaatta tattcaaata      540
                                                                        552
aagcaaaaat ta
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<210>   101
<211>   606
<212>   DNA
<213>   Homo sapiens


<220>
<221>   misc_feature
<222>   (565)..(565)
<223>   n is a, c, g, or t

<220>
<221>   misc_feature
<222>   (581)..(581)
<223>   n is a, c, g, or t

<400>   101
tcgtgccact gcactccagc ctggacgaca gagtgagact ccatctcaaa ataaataaat      60

aaataaataa ataaataaat aaataaaaaa ataaaaaata cttctgctat gaaaaaccta     120

gttggtattt ttgcttattt aatactatag aaatatggtg atctcatctt taatagagtg     180

cttttaaggt ccccagtgat aatctcctaa aatcatgaac tttaagaatt tataatgtta     240

atatgaggaa atgaaatctg gattatctca ccacatatta tataattcat tagtgacaga     300

gcaagaactc caggtcacct gtctattcca tgttttttcct atctgccttt aaatgttgag     360

atactaccct tatctcatgt gaatggagaa actgcctaaa atgctaaaac tgactcagag     420

gcacccagac ataagtgaag tgtgattaga aaatcctggt cagttgagtc ttagccaaat     480

gtgtacctac tgtgtctgcc tctatcaagt caatgaaaac atgatctgag aactgtaagt     540

ccatttatgg aaagggttga tttanagata ttttgaactt ncagtgatga gcccccttctc     600
                                                                        606
aaatag
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<210>   102
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<211>  341
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (86)..(86)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (168)..(168)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (230)..(230)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (241)..(241)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (257)..(257)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (337)..(337)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (339)..(339)
<223>  n is a, c, g, or t

<400>  102
cggactcctg tgctaattgt cagcttacat atcattgtat agagactgtt tattctgtac        60

caaactgatt tcaaaagtac tacatngaaa ataaaccggt gactgttttt cttcataaag       120

ttctgcgttt ggcatcttca ctctttccaa aatgtatctg tacatcanaa atgtcactat       180

tccaagtgtc tttttagtgt ggctttagta tggcttcctt ttaatattgn acatacattg       240

natctttgtt ttatggnaat aagtaataaa aatgtagact tcatattttg tacaaaatgt       300
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cctatgtaca gaataaaaaa gttcatagaa acagccnana a

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<210>  103
<211>  647
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (20)..(20)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (22)..(22)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (47)..(47)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (546)..(546)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (562)..(562)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (611)..(611)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (645)..(645)
<223>  n is a, c, g, or t

<400>  103
aggccgaggc aggcagatcn cntgaggtca agagtttgag accagcntag ctaacatggt      60

gaaacccccat ctctacaaaa atataaaaat tagcctgggt ggtgatgggc acctgtaacc     120
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ccagctactc gggaggctga ggtaggagaa tcacttgaac ccgggagatg gaggttgcag   180

tgagccaaga tcgtgccact gcactccagc ctgtgtgaca gaacaagact ctgtctcaaa   240

aaaaaataat aataataata ataataaaaa ggaataacat agctaggaat aaatttaatc   300

aaagaggtga aagacttata cacttaaaac tacaaaaaaa aaatcactga aggaattata   360

gacccaaata aaaataaata aaaagacatt ctgtgtttta gggaaagaag acttaatatt   420

gttaagatgt caatactacc caaagtgatc tacagattca acataatccc tatcaaaatt   480

ccaacagcct actttgtaga aatggaaaag ccaattttca aattcagatg gaattgcgag   540

gggttntgaa taacaaaaca cnatcttggg gaaaaaaaac aaaaaacaaa gtcaaagaac   600

tcacacttct ntatttataa atttactaca aagttatagt aatcnaa   647

<210>   104
<211>   329
<212>   DNA
<213>   Homo sapiens

<400>   104
tacgcacacg agaacatgcc tctcgcaaag gatctccttc atccctctcc agaagaggag   60

aagaggaaac acaagaagaa acgcctggtg cagagcccca attcctactt catggatgtg   120

aaatgcccag gatgctataa aatcaccacg gtctttagcc atgcacaaac ggtagttttg   180

tgtgttggct gctccactgt cctctgccag cctacaggag gaaaagcaag gcttacagaa   240

ggatgttcct tcaggaggaa gcagcactaa aagcactctg agtcaagatg agtgggaaac   300

catctcaata aacacatttt gggttaaaa   329

<210>   105
<211>   504
<212>   DNA
<213>   Homo sapiens

<400>   105
gagcagtggc atgatcacac cttactgcgg cctccaaccc ctgagcttaa gtgattctcc   60

cgcattatcc tcctgagtag ctgagactac aggtgcatgc caccatacac tactaaattt   120

gggtcgggtg gtggtggtga ttttttaata tttttgtaga gacagggtct cactgtgatg   180

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cccaggctgg tcttgaactc ctgggctcaa gcagtcaccc acctcagcct cccaaagcac     240

tgggattaca ggtgtgagcc accacactgg ccagctttgt tttgttttga tgactaagct     300

gctcttgcta aaagggcttc tctctgaact tccctacctt tcttctgttt ccctgggcta     360

gggctccatg ttggcagtcc tactcccaat taacctgggg ctgtctggtt aacctttata     420

agatctgcag tcattgggag acccggggac caggaatatt gttgttgagg gagctaccct     480

                                                                      504
ggaaagtgga tgggtggcca aagg
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<210>   106
<211>   582
<212>   DNA
<213>   Homo sapiens

<400>   106
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tttggctttg cctctaggca ttagatgtta tctttggagg catccttcta tgagcattca     60

tttttggacc aagcctggat ttacaattct attactggcc cagacttcat ttctatccaa     120

tttcattcca ctgtgctata gtttacaaca tataatttga cttataaata attcctgact     180

atgggtttaa agactgaaaa tggatcaata gaaactttga aaatgttaac atcttgattg     240

cttttctcag tgtagaaatg dacaatgttt agcttaaaaa ctgcatgttt ttaatgagat     300

acggggttga aagacttatt cctggaattt attgttctgg agaaagcctg ttgctatctg     360

ccataccttg gtttactttg tgcaaaatga gcttcttttt aagtaatgag ctctttccat     420

gttcagctta aattgctgtc ttagacactt catcagggtt ccctgctctg cctcattccc     480

ccttttgctc acttgcagcc tttgacataa tcctgggagg caattggcat catacatatt     540

                                                                      582
ttgctttgta atctcctgct ttgattctga ctgggaccca gc
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<210>   107
<211>   747
<212>   DNA
<213>   Homo sapiens

<220>
<221>   misc_feature
<222>   (708)..(708)
<223>   n is a, c, g, or t

<400> 107
ggatctaaga ccagcctggc agccaccaga tggtgattct agtcctggct cagtcagtaa   60

taggtcactg accccagaga aatcaattca gcctccccag gtccttggat ttctttctgt   120

gaaaatgaaa gcataggtag gaatttccca tggaacagct agcagaggag aaatattaaa   180

agtcaggaga ctcatgctat agttttcata cttcattaca acaatgttgt ttaggacaag   240

tgagttaacc tgttagcttc ctctatataa aatggaaagt cattaaaaac ctacatagca   300

gggttcttgt gaagatcaag tgataatgta ggaagcatgt acaaatgtca cattctgccg   360

tcacgtaatg gtcctcacag cttgaggtag catttagcat gtgtcatgat ttagtacaag   420

ggttggcaaa ctgttgctct tggattaagt ctggctcatt gcctgttttt caaagaaaaa   480

aattgtatat gtgtgtatat atgttatata taggtacaca cacatatgtg ctatatatag   540

catatataca cacataatat ataaacatgt acatatatag cattatatat ataccgtgta   600

taatatctcc agtcctcatg accagccatg cttgttcatt tacatttgca tactctatga   660

ttgctttcat gcaacaatgg cagagttgag tgattgtttt gcacaganac tgtatggccc   720

actaaaccta aaatattaat ctctgcc   747

<210>   108
<211>   522
<212>   DNA
<213>   Homo sapiens

<400>   108
ctcctgccgg gctcgtggcg gcttctgtcc gctccgcgga gggaagcgcc ttccccacag   60

gacatcaatg caagcttgaa taagaaaaac aaattcttcc tcctaagcca tggcatatca   120

gttatacaga aatactactt tgggaaacag tcttcaggag agcctagatg agctcataca   180

gtctcaacag atcaccccccc aacttgccct tcaagttcta cttcagtttg ataaggctat   240

aaatgcagca ctggctcaga gggtcaggaa cagagtcaat ttcaggggct ctctaaatac   300

gtacagattc tgcgataatg tgtggacttt tgtactgaat gatgttgaat tcagagaggt   360

gacagaactt attaaagtgg ataaagtgaa aattgtagcc tgtgatggta aaaatactgg   420

ctccaatact acagaatgaa tagaaaaaat atgacttttt tacaccatct tctgttattc   480

attgctttg aagagaagca tagaagagac tttttattta tt

<210> 109
<211> 682
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (600)..(600)
<223> n is a, c, g, or t

<400> 109

tgccactgaa	gatcctggtg	tcgccatggg	ccgccgcccc	gcccgttgtt	accggtattg	60
taagaacaag	ccgtacccaa	agtctcgctt	ctgccgaggt	gtccctgatg	ccaagattcg	120
cattttgac	ctggggcgga	aaaaggcaaa	agtggatgag	tttccgcttt	gtggccacat	180
ggtgtcagat	gaatatgagc	agctgtcctc	tgaagccctg	gaggctgccc	gaatttgtgc	240
caataagtac	atggtaaaaa	gttgtggcaa	agatggcttc	catatccggg	tgcggctcca	300
ccccttccac	gtcatccgca	tcaacaagat	gttgtcctgt	gctggggctg	acaggctcca	360
aacaggcatg	cgaggtgcct	ttggaaagcc	ccagggcact	gtggccaggg	ttcacattgg	420
ccaagttatc	atgtccatcc	gcaccaagct	gcagaacaag	gagcatgtga	ttgaggccct	480
gcgcagggcc	aagttcaagt	ttctggccgc	agaagatcca	catctcaaag	aagtggggct	540
tcaccaagtt	caatgctgat	gaatttgaag	acatggtggc	tgaaaagcgg	ctcatcccan	600
atggctgtgg	ggtcaagtac	atccccaatc	gtggccctct	ggacaagtgg	cggccctgca	660
ctcatgaagg	ctttcaatgt	gc				682

<210> 110
<211> 668
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (616)..(616)

<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (635)..(635)
<223> n is a, c, g, or t

<400> 110
tcccggaatc gcggccgcgt cgaccttgtc cttgagcgtc aaccttcttt ccctgaagtg   60

gctggggttc ctgtttcctt ctttgattga caacttgtgt taaccctcgc acatctctgg   120

gccaattttt gcttgtaagt ctttccggag acccctggaa tttaaatcat tagcaccgcg   180

cccttccccg aagagtcttc gaagggttgc cgcttttcgg tggcgcagtt ctcgcgagaa   240

ggtgactttc tttctcggta tttcctggtt tccagaatcc ttagcgcgag gcggaaaaaa   300

tatttctccc agcttgtgtt gatgccgcga ttttgactga gacttcttcc cacgatttct   360

gtttttgctt ctccaaggaa aatggcagct cccgagcagc cgcttgcgat atcaagggga   420

tgcacgagct cctcctcgct ttccccgcct cggggcgacc gaacccttct ggtcaggcac   480

ctgccggctg agcttactgc tgaggagaaa gaggacttgc tgaagtactt cggggctcag   540

tctgtgcggg tcctgtcaga taaggggcga ctgaaacata cagcttttgc cacattccct   600

aatgaaaaag cagctntaaa ggcattgaca aactncatca actgaaactt ttagtcatac   660

                                                                       668
tttaatcg

<210> 111
<211> 536
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (452)..(452)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (529)..(529)
<223> n is a, c, g, or t

<400> 111

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cagagatcaa aataggcctt acacagtgcg acgcgaattt aaaagattac cccattcagg      60

tgtatggatt ttgcagtatt aaagatgctg cctggaatag gtcattatct tctccaagta     120

ctctgttaag tcaatgagtc acatagagta taaggtttat tatctgcttt tctttcatta     180

aataaatctt tattgaattt ctactacatt aaaaaaccaa accaaaacaa aacaaacaaa     240

aaaaacactt ccctgagcca taaaggagaa ggtagttttg actggaacct tgaaggatgg     300

gtaaactttc agcagataaa gattgagaga agaccttcca ggtagagaaa gcagtgtggg     360

cacaggcaaa gatggaagaa cacacgtggc tgtgggaaac acagctagaa gccagtgcgg     420

atagagagta ggctatgatg tgcaaaggtt anacactggg agagacaggt ccatgagagt     480

agcttggact aacacaggga gggtttggaa tcccaactgg ggaacctana aatcaa         536


<210>  112
<211>  368
<212>  DNA
<213>  Homo sapiens

<400>  112
taggaggctt attcactgat ttcccctatt ctcaggctac accctagacc aaacctacgc      60

caaaatccat ttcactatca tattcatcgg cgtaaatcta actttcttcc cacaacactt     120

tctcggccta tccggaatgc cccgacgtta ctcggactac cccgatgcat acaccacatg     180

aaacatccta tcatctgtag gctcattcat ttctctaaca gcagtaatat taataatttt     240

catgatttga gaagccttcg cttcgaagcg aaaagtccta atagtagaag aaccctccat     300

aaacctggag tgactatatg gatgcccccc accctaccac acattcgaag aacccgtata     360
                                                                     368
cataaaat


<210>  113
<211>  338
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (318)..(318)
<223>  n is a, c, g, or t
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<220>
<221> misc_feature
<222> (322)..(322)
<223> n is a, c, g, or t

<400> 113
tctttatcaa gttgagaaag ttcctcccct ctattcctag tttgctaaga gtccttctat   60

cctatttctt aatggtttag tagatgactc tgtggtactt tgaaggttgt ttgcagaatt   120

tccatgccat aggcaattta cctttccttg acatttgaag gattgatgtt ggtgccaagt   180

atagaatctt cacagagtcc tcctgtagct tctaaaggtt tagcttgaaa atgttaattg   240

cttaacgcta gtaagtgagt gaaaaagctg gggataaatt ttgtatcttg cttatatttc   300

agttcccacc tctgtccnga cnaaacccccc atatataa   338

<210> 114
<211> 383
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (236)..(236)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (245)..(245)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (278)..(278)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (288)..(288)
<223> n is a, c, g, or t

<400> 114
tagtttacat atcccaacct ttaaaaatat tcctcttatt agctttatat tcactttata   60

gaagttgagt tttaattaaa attcttggca tcctgaagta tgtcacatag catgtgctcc   120

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ttataaatat gttgatatct cagaagacag catcccggtt ttcattttat aaagtaccat      180

acttaagaat gctgtaatac ttatctttta taacatgttt ccttcgcttt gcttgncttt      240

tatgncatca gttttaactg tttacttcat ttaacagntt acatcatnca acagtttact      300

tcattaaaca gtaggtggaa aaatagatgc cagtctatga aaatcttccc atctatatca      360
                                                                        383
aaatactttc aaggatatac ttt
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<210>   115
<211>   615
<212>   DNA
<213>   Homo sapiens


<220>
<221>   misc_feature
<222>   (586)..(586)
<223>   n is a, c, g, or t

<220>
<221>   misc_feature
<222>   (610)..(610)
<223>   n is a, c, g, or t

<400>   115
cgactttcaa ccatcaagtg aggaatacct tcacataact gagcctccct ctttatctcc      60

tgacacaaaa ttagaacctt cagaagatga tggtaaacct gagttattag aagaaatgga     120

agcttctccc acagaactta ttgctgtgga aggaactgag attctccaag atttccaaaa     180

caaaacctat ggtcaagttt ctggagaagc aatcaagatg tttcccacca ttaaaacacc     240

tgaggctgga actgttatta caactgccga tgaaattgaa ttagaaggtg ctacacagtg     300

gccacactct acttctgctt ctgccaccta tggggtcgag gcaggtgtgg tgccttggct     360

aagtccacag acttctgaga ggcccacgct ttcttcttct ccagaaataa accctgaaac     420

tcaagcagct ttaatcagag ggcaggattc cacgatagca gcatcagaac agcaagtggc     480

agcgagaatt cttgattcca atgatcaggc aacagtaaac cctgtggaat ttaatactga     540

gggtgcaaca ccccattttc ccttctggag acttctaatg aaacanattt cctgattggc     600
                                                                        615
attaatgaan agtca
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<210> 116
<211> 161
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (144)..(144)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (153)..(153)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (156)..(156)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (160)..(160)
<223> n is a, c, g, or t

<400> 116
gatttttaaa aatacatata gcaaaaatat tacagggtca ggggagacaa ttagaatgat   60

ataattcaaa gtggattaaa aaaaaaactg tcacccagaa tacaataccc agcaaagttg   120

tccttcataa atgaaagaaa aatnaaatct ttnccnaacn a   161

<210> 117
<211> 28
<212> DNA
<213> Homo sapiens

<400> 117
tcccgggaat ctgcaggatc cgtcgact   28

<210> 118
<211> 258
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (28)..(28)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (34)..(34)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (39)..(39)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (188)..(188)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (223)..(223)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (228)..(228)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (231)..(231)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (255)..(255)
<223> n is a, c, g, or t

<400> 118
gacagtgccc agggctctga tatgtctntc acancttgna aagtgtgaga cagctgcctt   60

gtgtgggact gaaaggcaag atttgttcct gcccttccct ttgtgacttg aagaaccctg   120

actttgtttc tgcaaaggca cctgcatgtg tctgtgttct tgtaggcata atgtgaggag   180

gtggggganac caccccaccc ccatgtccac catgaccctc ttnccacnct nacctgtgct   240

ccctcccccaa tcatnttt

<210> 119
<211> 694
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (85)..(85)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (666)..(666)
<223> n is a, c, g, or t

<400> 119
tgggctttgg gctggctgca gtctgtctga gggcggccga agtggctggc tcatttaaga   60

tgaggcttct gctgcttctc ctagnggcgg cgtctgcgat ggtccggagc gaggcctcgg   120

ccaatctggg cggcgtgccc agcaagagat taaagatgca gtacgccacg gggccgctgc   180

tcaagttcca gatttgtgtt tcctgaggtt ataggcgggt gtttgaggag tacatgcggg   240

ttattagcca gcggtaccca gacatccgca ttgaaggaga gaattacctc cctcaaccaa   300

tatatagaca catagcatct ttcctgtcag tcttcaaact agtattaata ggcttaataa   360

ttgttggcaa ggatcctttt gctttctttg gcatgcaagc tcctagcatc tggcagtggg   420

gccaagaaaa taaggtttat gcatgtatga tggttttctt cttgagcaac atgattgaga   480

accagtgtat gtcaacaggt gcatttgaga taactttaaa tgatgtacct gtgtggtcta   540

agctggaatc tggtcacctt ccatccatgc aacaacttgt tcaaattctt gacaatgaaa   600

tgaaactcaa tgtgcatatg ggattcaatc cccaccatcg atcatagcac cccctatcag   660

                                                                      694
cactgnaaac tcttttgcat taagggatca ttgc

<210> 120
<211> 337
<212> DNA
<213> Homo sapiens

<400> 120
ggcagcgcgg ggagcccgtc ggcgccggcg ggcgggccgg tttcgaagtt gatgcaatcg   60

gtttaaacat ggctgaacgc gtgtgtacac gggactgacg caacccacgt gtaactgtca   120

gccgggccct gagtaatcgc ttaaagatgt tcctacgggc ttgttgctgt tgatgttttg   180

ttttgttttg tttttggtc tttttttgta ttataaaaaa taatctattt ctatgagaaa   240

agaggcgtct gtatattttg ggaatctttt ccgtttcaag cattaagaac acttttaata   300

aacttttttt tgataatggt taaaaaaaaa aaaaaaa   337

<210> 121
<211> 210
<212> DNA
<213> Homo sapiens

<400> 121
cataataaaa aacaatcaac aaacagggaa tggaaagaaa cttcctcagc atggtgaagg   60

ccacatatga aaatcccaca gctaacatca tactcaatga tgaaagactg aaagcttttc   120

tcctgagatc aggaacaaga caaagatgtc acctttgtc acttctattc aactcattat   180

tggaagtttt tgccagagca attaggtaag   210

<210> 122
<211> 476
<212> DNA
<213> Homo sapiens

<400> 122
cagaatcttt tcataggctg aatgttgctc cacaatgtgt cctttgacta tctctggcta   60

attattattt taatctcttc tcagcttttc caagaacata acgttaacca aagatcttag   120

gccattcaca actcttttgt aaaaattaat gtggatgtga aacgaggcaa caaatcctga   180

agtagaaagt tattcctggc caggcacggt ggctcacgcc tgtaatcctg cactttggg   240

aggccgaggt gggtggatca tgaggacagg agatcgagac catcctggcc aacatgatga   300

aacccccatct ctactaaaat acaaaaaatt agctgggcat ggtgacgcgt gcctgtagtc   360

ccagttactc gggaggctga ggcaggggaa ttgcttgaac ctcggaggtg ggaggttgca   420

gtgtgccgag atcacgctac tgcactccag cctggcaaca gagcaagact ccatct   476

<210> 123
<211> 250
<212> DNA
<213> Homo sapiens

<400> 123
aaacagaaag tttcttctaa aggcatgatt cagttaagtc attcttaagt gttaaaaaat   60

tgtgaaaaat gtgcctgtaa tcccaacact ttgggaggcc gaggcaggca gatcacgagg   120

tcaggagatc aagaccatcc tggctaacaa ggtgaaaccc cgtctctacg aaaaatacca   180

aaaacattag ccgggcgtgg ttgtgggcgc ctgtagtccc agctacttga gaggctgagg   240

                                                                       250
caggagaatg

<210> 124
<211> 523
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (280)..(280)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (326)..(326)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (328)..(328)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (378)..(378)
<223> n is a, c, g, or t

<400> 124
ttcttgggat attgatgact actgtctgag aggtgctgtg gggagatttt caggattgtg   60

tggtctttga gggggggtgtt tttttaagac aacattgacc actgtccact gtccacatga   120

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tcattgtaaa attgcaatgc cgcatgctag ttggttacat aagacataat tccagtgatt      180

gaaggtggtt acactgtatg gtggtgtgtt caagatggca ctggcatctt tgagcagagc      240

ctggctatgc agcatcattt gagttttta aacaccctan aggtctggtt gttgttgctg       300

ttgtcctttc ctgtgaaagt cacaananaa gttacagtcc aggtgaacct ggagtttata      360

ggttggtttt gtttctgnta tatatatata tatatatatt ttttttttt tttaacattt      420

acctgtagtg ctgtagctgt tgatactatc acctgcatgc tatttctagt gagtgctaaa      480

tacagtatgg tccaatgaca ataacagccc atggtactgc cag                        523
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<210> 125
<211> 487
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (483)..(483)
<223> n is a, c, g, or t

<400> 125
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catcagtctg ttatccatgc tgactttccg aagacttgca gctactgcat tgatatcttt       60

cctgccaata agcaaagtgt tgaacacttc acaaaatatt ttactgaggc aggcttgaaa      120

gagctttcag aatatgttcg gaatcagcaa accatcggag ctcgtaagga gctccagaaa      180

gaacttcaag aacagatgtc ccgtggtgat ccatttaagg atataatttt atatgtcaag      240

gaggagatga aaaaaacaa catcccagag ccagttgtca tcggaatagt ctggtcaagt       300

gtaatgagca ctgtggaatg gaacaaaaaa gaggagcttg tagcagagca agccatcaag      360

cacttgaagc aatacagccc tctacttgct gcctttacta ctcaaggtca gtctgagctg      420

actctgttac tgaagattag ggagtattgc tatgacaaca ttcatttcat gaaagccttc      480

canaaaa                                                               487
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<210> 126
<211> 274
<212> DNA
<213> Homo sapiens
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<220>
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<222> (233)..(233)
<223> n is a, c, g, or t

<220>
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<222> (248)..(248)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (268)..(268)
<223> n is a, c, g, or t

<400> 126
cacactttca tgataaaaac agaacctagg aatgaaaaga aattatagca acataataaa   60

gaccatatat gagaagccca cagctaacat actgtatggt gaaaaactga aagctcttcc   120

tctaagatca ggaacaaggc aaggatgccc attcttgcca cttctatcga acgtagtact   180

ggaagcccta gccagaacaa ctaggcaata gaaagaaatt aaaggcatcc atntcagaaa   240

ggaagaanca aaatgctgtc tgtttaanat gaca   274

<210> 127
<211> 130
<212> DNA
<213> Homo sapiens

<220>
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<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (99)..(99)
<223> n is a, c, g, or t

<400> 127
tttctatana aaaaaatttt ttaaaataat tgtaaagtta gatttaaaat tgtaaaatat   60

aaaatcacaa aggaatgtac ccaataaaat gtaaatgcnc cataaaaaaa aaaaaaaaaa   120

aaaaaaaaaa

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<210>    128
<211>    519
<212>    DNA
<213>    Homo sapiens


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<222>    (3)..(3)
<223>    n is a, c, g, or t

<220>
<221>    misc_feature
<222>    (160)..(160)
<223>    n is a, c, g, or t

<220>
<221>    misc_feature
<222>    (252)..(252)
<223>    n is a, c, g, or t

<400>    128
cgntaacgtg caatccgccg cacgccagca aactggacaa actccgggat ctcatcgaag      60

cgattgagca ccagtaccag agtaataccg gactgatgta acgaggcgag tcgctcatcc     120

agcttgctga cgtgaggcaa catccaggcc atcgaacggn tcatcaagaa tcaacaagtc     180

aggctccgac atcagcgcct gacacagcag ggttttttcgc gtctcgccag tggaaaggta     240

tttaaagcgt cngtcgagga gggcggtaat accgaactgc tgcgccagtt gcatgcaacg     300

cggtgcatcc tttacttcat cctgaatgat ctcagccgta gtgcgtccgg tgccatcttc     360

gccagggccg agcatatcgg tgttattccg ctgccattcg tcgctgacga gttttttgcaa     420

ttgctcgaag gagagacgag tgatgtggga aaactggctt tgccgttcac ctttcaaaag     480

cgggaagttc ccccgccagc gcgcgggcca gggcccgat                            519
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<210>    129
<211>    272
<212>    DNA
<213>    Homo sapiens
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<220>
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<222> (31)..(32)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (65)..(65)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (75)..(75)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (107)..(107)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (121)..(121)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (135)..(135)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (181)..(181)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (197)..(197)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (203)..(203)
<223> n is a, c, g, or t

<400> 129
tttttttttt ttattctatt aaaaaatgtt nntgaaaaaa gatacttaaa ttttaaagat   60

aactnaattc ctaangattt aaaataatcc aagcagagat gaaagancaa atgcaaatgc   120

ntaaaaagac cccanagcat tgttagcaaa aagcaaatat agttagccaa gcatatatat   180

ntcataaaag caataanaag gcntaaagca agtttgggga gagcttattt aaaacttgta   240

aaaatcattt gaatttttaa aagttttcaa ac   272

<210> 130
<211> 551
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (144)..(144)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (148)..(148)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (153)..(153)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (172)..(172)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (174)..(174)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (369)..(369)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (401)..(401)
<223> n is a, c, g, or t

<220>
<221> misc_feature

<222> (449)..(449)
<223> n is a, c, g, or t

<400> 130
tttggaacac aaagttccct ttttagaaga ataggtattg agcccttgag cgtgggtaga   60

aagatagaga cagagtgatt tgcaaaataa tggaggatca tatttatata tgaattttca   120

cttatttgaa ctttcagata tcancttnaa aanctttggt ttaagtaaag tntnttaatg   180

agactccttg gatgaaagta accaaaacca gtaaaaataa ggtaataagg atgtaatagt   240

ttcttatgga cactcaacag ctagaatgca gttagtctca gaaaagaatt agaacaaata   300

actggaaggc catcaggagt ccaaaaccat cactctttta tatttatat tttatttttc   360

tctcttcana tgagcattct ctttctatgt ccatatggta naaggcggca gctccataga   420

ttatggcttc agatgttaca gttccgctna atgcagggac agacttgcta tctttcagtc   480

cccttacata tcctggggag agagcaaatg attgactggc ttgagtcagg tgcccgttcc   540

                                                                        551
ctttccaatc t

<210> 131
<211> 224
<212> DNA
<213> Homo sapiens

<220>
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<222> (6)..(6)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (38)..(38)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (72)..(72)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (87)..(87)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (206)..(206)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (208)..(208)
<223> n is a, c, g, or t

<400> 131
gtttgnttgt gaccatctgt acttgtaatt tctttacntt cattggtatg aaaaatatgt   60

tcttagaagc angaaaaaga attcagnttt gctttgtata ctaaattaaa tgctgtaatt   120

ttgataaaat gaaaaatctg ctttatttgc aacaattggt ttcttccttg acgtcagcct   180

                                                                       224
cactcttgga ctttggtatt cagccngnca cccctgggaa ttcc

<210> 132
<211> 349
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (325)..(325)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (336)..(336)
<223> n is a, c, g, or t

<400> 132
gtgcctccct gtgtgagtag cctaaggtgc attgaaaaag actgggatgt gttttatttt   60

tttgtattag atagcattaa ccttactgtt gaagtatttt tggtggagta ttagtgacaa   120

gccattgagt cttaagcctt acggcttcct ataaaatcac taatttcgtg tgtgtttgtg   180

tgtaggttac gttatatata ggattcgtgt tcgccgtggt ggccgaaaac gcccagttcc   240

taagggtgca acttacggca agcctgtcca tcatggtgtt aaccagctaa agtttgctcg   300

aagccttcag tccgttgcag aggancgagc tggacnccct gggggctc   349

<210> 133
<211> 635
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (557)..(557)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (605)..(605)
<223> n is a, c, g, or t

<400> 133
ttaacagctg catagagttt taaaagtaca ttatattttg tcagacaagt aaaatatctg   60

ttttttcacgc aaaaaaagcc atgaaatacg taattttta aagacaaaaa atcatctttt   120

gagtttgctc tttggttttt cttcattcct tttgaggatt gggaaaacag aaagattctt   180

tgatttgggt aatgaagagg taatttggga cagtgtggtg gtaccaggaa gaaagaggat   240

tggaaaggcc agtactgttt tagttgctcg gcactgttgg ttttgtttta atgtggttgc   300

cctgtccact acatggttct atcagtagtg taatccattt tcaatgtaaa gctctttag   360

tttttgtcat agacataaat taatattttg agaggcatcc ctcacctgtt catttcttct   420

gtgttgaaat gaagtactta aaattaccgt tatacatgaa ctttgtggac tgtaagattt   480

gttatatatg ttcaaatgcc ttttagctgg cttttaatt aatatgcctg ttttgagtgc   540

ttaatacaat gtaatgngga ttgtaaatca tacctatttt aaatcattcc ttcctgtata   600

tttgnactca gagagcctta ttttattctt ccagc   635

<210> 134
<211> 382
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (193)..(193)

<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (249)..(249)
<223> n is a, c, g, or t

<400> 134
ttttcttaga actttatttt ttctggccag gcgcagtggc tcacacctgt aatcccagca   60

ctttgggagg ccaaggcagg tcgatcacct gaggtcagga gctcaagacc agcctggcca   120

acatggtgaa accctgtctc tactaaaaat acaaaaatta gctgggcgtg gtggcgcatg   180

cctgtaatcc canctactca ggaggctgag gcaggagaat tgtttgaacc cgggaggcgg   240

aggttgcant gagccgagat tgcgccactg cactccagcc tgggcaacag agcgaaactc   300

catctcaaaa aaaaaaaaaa aaaacaacct ttattttttc tgattttaaa agtaataact   360

                                                                        382
agtttgtaga aacattaaaa gt

<210> 135
<211> 503
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (27)..(27)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (66)..(66)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (305)..(305)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (403)..(403)
<223> n is a, c, g, or t

<220>

<221> misc_feature
<222> (424)..(424)
<223> n is a, c, g, or t

<400> 135
accctaaaca taacttaaaa tttgttngga atttgaaagt acagaatttt cctgtaattg   60

agactnttta aacttttgtg gttggagaag gtattctatt ttttgaaaat atctgtaagt   120

tttatctaaa tagtaaactc taagtattct tcccctttac ttacagccac cctgggaatc   180

tgagactaga gaaaataaag tttgtctctt gttctaagga gggtctggtt tagaaatctg   240

atttagacat agaaaaattg caagaagctt gaggtgattg gaagatacga ttttgttatc   300

aaagnatgtt tctgttttat agattttatt catctacaac tccttattaa tatatttaag   360

aagtcattaa cccaccattg attacttgat ataaaggag aancggtggt aaaaggtgaa   420

atanaatttt taattttttt tttttaagt ttaggatttt tttttaaatt ctaagagttt   480

ctgtcatttg gggacaatca gaa   503

<210> 136
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (15)..(15)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (29)..(29)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (48)..(48)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (319)..(319)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (557)..(557)
<223> n is a, c, g, or t

<400> 136
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tgggaatcat aattngttaa ctgaagctna taagatgaga gcattcanag agaaaagaac     60

ggaaagattg aatatcagtt tcccttcttt aaaaaaattg tggatatgtg atctagcttc    120

ttgagcatca cagtgactga ttggctcgtg gtaattgatc gctatgctga caatcttatc    180

tccacctatg tcattcaatt ttctaagagg caaaatcctt aatcaggagg agagtttagc    240

tctagctaaa tttcccttgt ccagcatgct cctgctcccc caacttgtgg aaacagctaa    300

aggattggac taggagcana agtttggaat ggttaaaatg tagcaacatg tgtttcctga    360

aacaaaattc cactataata aaaaaagcat ttgaatgctc ccttgtaatt ctgttggagc    420

ttgttgcctt ttttatgaca caaccataat cagtgataga cagtagcata aagaagcaag    480

agcaaagcaa ttaagtaata atagcactac aaaaatgtgt gctgtactta ccaaacacga    540

catttatgaa ttattanata ggaataaggg gatggt                             576
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<210> 137
<211> 508
<212> DNA
<213> Homo sapiens

<400> 137
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gacccagcca tctaaataag ttrtacatgt tgcgtatttt tttgttaggg acttatcttc     60

cgaagaggaa aggtttatga aacctaaagt aacaatgata gcttggaatc aaaatgatag    120

cattgttggc acagctgtga atgatcatgt cctcaaagtg tggaattctt acactggaca    180

actgcttcat aacttaatgg gacatgctga tgaagtattt gttctggaga cacatccctt    240

tgattccaga attatgttat ctgcaggaca tgatggcagc atatttatat gggatattac    300

aaaaggtacc aagatgaaac attattttaa tatggtaagt gaagtgagat gtaccttgat    360

acatgcttga taatttgttt agagtatttg ggttatgcgg cttacccaga aattgatctg    420

cttgttttgg cagtttgttt ttacaaatca acatattcaa agcctgctaa atattagaca    480

gctacatgta tatacgtaca tacatgaa                                      508
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<210> 138
<211> 4
<212> DNA
<213> Homo sapiens

<400> 138
tttc   4

<210> 139
<211> 431
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (384)..(384)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (403)..(403)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (412)..(412)
<223> n is a, c, g, or t

<400> 139
ctcgctggcg ggaggccacg ggctttccac agcgcggggg aacgggaggc tgcaggatgg   60

tcaagctgac ggcggagctg atcgagcagg cggcgcagta caccaacgcg gtgcgcgacc   120

gggagctgga cctccggggg tgatctggac cctctggcat ctctcaaatc gctgacttac   180

ctaagtatcc taagaaatcc ggtaaccaat aagaagcatt acagattgta tgtgatttat   240

aaagttccgc aagtcatagt actggatttc cagaaagtga aactaaaatt ttaatccagg   300

tgctggtttg ccaactgaca aaaagaaagg tgggccatct ccaggggatg taaaagcaat   360

caagaatgcc atagcaaatg cttnaactct ggctgaagtg ganaggctga angggttgct   420

gcagtctggt c   431

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<210>   140
<211>   606
<212>   DNA
<213>   Homo sapiens


<220>
<221>   misc_feature
<222>   (177)..(177)
<223>   n is a, c, g, or t

<220>
<221>   misc_feature
<222>   (237)..(237)
<223>   n is a, c, g, or t

<220>
<221>   misc_feature
<222>   (475)..(475)
<223>   n is a, c, g, or t

<400>   140
gaagacctca catctgagag ctcatctgcg ttggcattct ggagaacgcc cttttgtttg      60

taactggatg tactgtggta aaagatttac tcgaagtgat gaattacaga ggcacagaag     120

aacacataca ggtgagaaga aatttgtttg tccagaatgt tcaaaacgct ttatganaag     180

tgaccacctt gccaaacata ttaaaacaca ccagaataaa aaaggtattc actctancag     240

tacagtgctg gcatctgtgg aagctgcgcg agatgatact ttgattactg caggaggaac     300

aacgcttatc cttgcaaata ttcaacaagg ttctgtttca gggataggaa ctgttaatac     360

ttccgccacc agcaatcaag atatccttac caacactgaa ataccttttac agcttgtcac     420

agtttctgga aatgagacaa tgggagtaaa tattacacaa atacttattc attgnggtta     480

tttttataca gtagtgagaa gaatattgtt cctaagttct tagatatctt tttttggatg     540

tgcaaaaatt tttggattga cagtaacttg ggtatacatg acactgaaat gccttacttt     600
                                                                      606
ggatga


<210>   141
<211>   564
<212>   DNA
<213>   Homo sapiens
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<220>
<221> misc_feature
<222> (62)..(62)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (175)..(175)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (441)..(441)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (445)..(445)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (491)..(491)
<223> n is a, c, g, or t

<400> 141
tgcctgcggg ccaggacctc gcccagccca tgttcatcca gtcagccaac cagccctccg   60

angggcaggc cccccaggtg accggcgact gagggcctga gctggcaagg ccaaggacac   120

ccaacacaat ttttgccata cagccccagg caatgggcac agccttcctc cccanaggac   180

ccggccgacc tcagcgcctc ctgcaggcta ggacactggt gcactacacc ccatgcctgg   240

gggccgagat tctccagcag aaagatgcaa tattttttgt ttcctttttt tccatttttt   300

tctctaagga atcaatattt caatatgttg agtgtgtgtc caatgctatg aaattaaaat   360

attaaataac atatttatgg cattttcttg aagagtgtgg ttgaagaaat atttctcctt   420

ttgttttttct ttttttttttg nttgntactg ccacttcttt ttaggagcaa atctccccag   480

gggtgtacgg natttcttga ctctgggaac agctgctacc cccaagactt gccacgttgt   540

                                                                       564
tctgccctca aatggaatta agtg

<210> 142
<211> 390

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (179)..(179)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (232)..(232)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (314)..(314)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (319)..(319)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (359)..(359)
<223> n is a, c, g, or t

<400> 142
ggaatatggt caggatcttc tccatactgt cttcaagaat ggcaaggtga caaaaagcta   60

ttcatttgat gaaataagaa aaaatgcaca gctgaatatt gaactggaag cagcacatca   120

ttaggcttta tgactgggtg tgtgttgtgt gtatgtaata cataatgttt attgtacana   180

tgtgtggggt ttgtgtttta tgatacatta cagccaaatt atttgttggt tnatggacat   240

actgcccttt catttttttc ttttccagtg tttaggtgat ctcaaattaa gaaatgcatt   300

taaccatgta aaanatgant gctaaagtca gcttttagg gcccttttgcc aataggtant   360

                                                                     390
cattcaatct ggtattgatc ttttcacaaa

<210> 143
<211> 546
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (87)..(87)
<223> n is a, c, g, or t

<400> 143
acccgccatc ttccagtaat tcgccaaaat gacgaacaca aagggaaaga ggagaggcac   60

ccgatatatg ttctctaggc cttttanaaa acatggagtt gttcctttgg ccacatatat   120

gcgaatctat aagaaaggtg atattgtaga catcaaggga atgggtactg ttcaaaaagg   180

aatgccccac aagtgttacc atggcaaaac tggaagagtc tacaatgtta cccagcatgc   240

tgttggcatt gttgtaaaca aacaagttaa gggcaagatt cttgccaaga gaattaatgt   300

gcgtattgag cacattaagc actctaagag ccgagatagc ttcctgaaac gtgtgaagga   360

aaatgatcag aaaaagaaag aagccaaaga gaaaggtacc tgggttcaac taaagcgcca   420

gcctgctcca cccagagaag cacactttgt gagaaccaat gggaaggagc ctgagctgct   480

ggaacctatt ccctatgaat tcatggcata ataggtgtta aaaaaaaaa ataaaggacc   540

                                                                     546
tctggg

<210> 144
<211> 109
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (12)..(12)
<223> n is a, c, g, or t

<400> 144
acattttccg gnccttttgc catacacagt tacagagatc agtcaaatcc ataccaccac   60

tgagatctca tttattgcca cagatgcaca aaataaataa cccaaaatc   109

<210> 145
<211> 374
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (272)..(272)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (292)..(292)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (362)..(362)
<223> n is a, c, g, or t

<400> 145

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ccagcaacga cccatacctc agacccgacg gcccggagcg gagcgcgccc tgccctggcg      60

cagccagagc cgccgggtgc ccgctgcagt ttcttgggac ataggagcgc aaagaagcta     120

cagcctggac ttaccaccac taaactgcga gagaagctaa acgtgtttat tttcccttaa     180

attattttg  taatggtagc ttttctaca  tcttactcct gttgatgcag ctaaggtaca     240

tttgtaaaaa gaaaaaaac  cagactttc  anacaaaccc tttgtattgt anataagagg     300

aaaagactga gcatgctcac tttttatat  taattttac  agtatttgta agaataaagc     360

                                                                     374
ancatttgaa atcg
```

<210> 146
<211> 357
<212> DNA
<213> Homo sapiens

<400> 146

```
gtacaggagg taaattggat accccatcta aggggatctg tgagaccagg tagttatttg      60

gaatgaaaga gtaagatatt aaaccagcca gcatgtcaac aggtgggtga tagtcttgtt     120

ctcacagaca acagatggcc atcatcttaa aacaacattt atgttaacca gcagataagg     180

gactcctgca ttgtcagtgg actttgagcc tgagtttttc tacttgcata ggtgaaagtg     240

gactgcaatg ctagtataaa tgccgtatga tgactagtac cccttaggga gctccagttt     300

gccttcctgg ggaaccacag accccaagtg taatttcctg aggacagccc gacttct        357
```

```
<210>  147
<211>  293
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (63)..(63)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (101)..(101)
<223>  n is a, c, g, or t

<400>  147
gttactgtga gcctgtcagt agtgggtacc aatctttgt gacatattgt catgctgagg      60

tgngacacct gctgcactca tctgatgtaa aaccatccca nagctggcga gaggatggag     120

ctgggtggaa actgctttgc actatcgttt gcttggtgtt tgtttttaac gcacaacttg     180

cttgtacagt aaactgtctt ctgtactatt taactgtaaa atggaatttt gactgatttg     240

ttacaataat ataactctga gatgtgtgaa aaaaaaaaaa aaaaaaaaaa aaa            293


<210>  148
<211>  521
<212>  DNA
<213>  Homo sapiens

<400>  148
ctgcggtgga gccgccacca aaatgcagat tttcgtgaaa acccttacgg ggaagaccat      60

caccctcgag gttgaaccct cggatacgat agaaaatgta aaggccaaga tccaggataa     120

ggaaggaatt cctcctgatc agcagagact gatctttgct ggcaagcagc tggaagatgg     180

acgtactttg tctgactaca atattcaaaa ggagtctact cttcatcttg tgttgagact     240

tcgtggtggt gctaagaaaa ggaagaagaa gtcttacacc actcccaaga agaataagca     300

caagagaaag aaggttaagc tggctgtcct gaaatattat aaggtggatg agaatggcaa     360

aattagtcgc cttcgtcgag agtgcccttc tgatgaatgt ggtgctgggg tgtttatggc     420

aagtcacttt gacagacatt attgtggcaa atgttgtctg acttactgtt tcaacaaacc     480
```

agaagacaag taactgtatg agttaataaa agacatgaac t

<210> 149
<211> 470
<212> DNA
<213> Homo sapiens

<400> 149
aagctcatga tttaaatgt attttctaa taaactatac tcccatttaa aaatcaccaa   60

taccttaatg tttcaattat ataagctaat taaaaataaa ggctgggcgt ggtggctcac   120

tttggaagac cgaggcaggc agatcacctg aggtcaggag ttcgagacca gcctgcccaa   180

catggagaaa ccccatctct actaaaaata caaaattagc caggcatggt ggcacatgcc   240

cgtaatccca gctactgggg aagctgaggc aggagaatca cttgaacctg ggaggcaggg   300

gctgcagtga gccgagatca tgccattgca ctccagtctg ggcaacaata gtggaactcc   360

atctcaaaaa taataaaaaa aataaaataa aaataaaatt caaacctaaa atagatgctc   420

tacttcagga gtgggcaaat taatcacctg catcctttt ttgggctttc   470

<210> 150
<211> 575
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (16)..(16)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (492)..(492)
<223> n is a, c, g, or t

<400> 150
ttttttctta aatggngatt actaatatat gtggagacta ttaatctctt ttctgttgcc   60

attagttcat ttttccccaa aagccaatac atgttcatta caaaaatgaa ttataaaata   120

taagttaaaa gaaaaacata aaaccctaca atcttaccca cccagacaac tactattaat   180

accttagtat taacatatac acatcatgta tatgtataaa tttatcttaa acaaaaataa   240

aattattctt tacatattgt tttaaaacct atttatctgg ccaggtgccg tggctcacgc   300

ttgtaatccc agcactttgg gaggctgagg cacgtggatc acctgaggtc aggaattcga   360

gaccagccca gccaacatgg tgaaaccctg tctctaatgg tttaaatacc aaaaaattag   420

ctgggcatgg tggcacatgc ctgtaatatc agctaacatg ggaggctgag gcaggagaat   480

cacttgaacc anggaggggg aggttgcagt gagccgaaat cacaccactt cactgcagcc   540

                                                                    575
tgggcaacaa agcaagactg tctcaaaaag aaaaa

<210>   151
<211>   470
<212>   DNA
<213>   Homo sapiens

<220>
<221>   misc_feature
<222>   (53)..(53)
<223>   n is a, c, g, or t

<220>
<221>   misc_feature
<222>   (86)..(86)
<223>   n is a, c, g, or t

<220>
<221>   misc_feature
<222>   (115)..(115)
<223>   n is a, c, g, or t

<220>
<221>   misc_feature
<222>   (179)..(179)
<223>   n is a, c, g, or t

<220>
<221>   misc_feature
<222>   (206)..(206)
<223>   n is a, c, g, or t

<220>
<221>   misc_feature
<222>   (260)..(260)
<223>   n is a, c, g, or t

<220>
<221> misc_feature
<222> (284)..(284)
<223> n is a, c, g, or t

<400> 151
cactgtcatt cccaggaggc tttggagtca gaactggatt caaattctga ctntatgttg   60

tgtgacttgg gccaatagct tctttntgtg cctcagtttc tttagctgta aatanacggg   120

taggtcaccc cttaccccat aggttatggg gaaagttaca gaaaatggtc agctgggcnc   180

agtggctcaa gcctgtggtc ccagcncctt gggaggccaa ggtgagcaga ttgcttgagc   240

ccaggagttt gacaccagtn tggcaacgtg acgaaccct atcnctgtga aaaatacaaa   300

aaattagcca ggcatggtgg tgtgtgtctg tggttccagc tgcttgagag tttgaagtgg   360

gaggatcacc tgagcccaga aggtcgaggc tgcagtgagc tgtgatcgcg tcactgcact   420

                                                                          470
ccagcctggc gacagagtga gacccctttt gaaaaaaaaa aaaaaaaat

<210> 152
<211> 631
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (248)..(248)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (602)..(602)
<223> n is a, c, g, or t

<400> 152
gtgagcggtg gtggtttatt cttccgtgga gttaagggct ccgtggacat ctcaggtctt   60

cagggtcttc catctggaac tatataaagt tcagaaaaca tgtctcgaag atatgactcc   120

aggaccacta tattttctcc agaaggtcgc ttataccaag ttgaatatgc catggaagct   180

attggacatg caggcacctg tttgggaatt ttagcaaatg atggtgtttt gcttgcagca   240

gagagacnca acatccacaa gcttcttgat gaagtctttt tttctgaaaa aatttataaa   300

```
ctcaatgagg acatggcttg cagtgtggca ggcataactt ctgatgctaa tgttctgact      360

aatgaactaa ggctcattgc tcaaaggtat ttattacagt atcaggagcc aataccttgt      420

gagcagttgg ttacagcgct gtgtgatatc aaacaagctt atacacaatt tggaggaaaa      480

cgtccctttg gtgtttcatt gctgtacatt ggctgggata agcactatgg ctttcagctc      540

tatcagagtg accctagtgg aaattcgggg gatgggaagg ccacatgcat tggaaataat      600
                                                                        631
ancgctgcag ctgtgtcaat gttgaaacaa g
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<210> 153
<211> 646
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (200)..(200)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (576)..(576)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (638)..(638)
<223> n is a, c, g, or t

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<400> 153
ttttttttt ataaactcca atcatttcca gagctactta gctcagcatc tttttttcc        60

acgctcttaa gttgtgttta tacatttttg atacagttag attgttttg tcacattctt       120

cattctatcc tgggatcccc caaccaccta agtggatttt ttgataattt gcatgcttta      180

aggataactc ttcattctgn aaagggctat gggttttggc aaatgcagag tcatgtatcc      240

aagattacaa tatcgcacag aagagtttca tcactatata aaactcacca gtcttcctcc      300

tattcaacca tctccatgcc ttcttcccag ccctaactcc ttaaaaccac tcatatcttt      360

actattgcta tagtattgcc tcttccacca tgtcatataa atggaaacat acagtattag      420
```

```
tcttctcaaa ctagtttctt ttacctaaca acatgcattt aagattcata gtgtctttta    480

atgacttgat agattatttc tttgtagctg aataatattg catcttatag atgtaaccgt    540

ttgtatatcc atattttctc acagcctatg acttgncttt tgattctctg aacaggccat    600

                                                                     646
tcacaaagca gaagttttaa tttttataaa gctaatgnat caactt
```

```
<210>   154
<211>   69
<212>   DNA
<213>   Homo sapiens
```

```
<400>   154
cctggatgac agcatatctg tttatagctc agtttactga atactttaag cccactgttg    60

                                                                     69
aaacctgct
```

```
<210>   155
<211>   502
<212>   DNA
<213>   Homo sapiens
```

```
<220>
<221>   misc_feature
<222>   (500)..(500)
<223>   n is a, c, g, or t
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<400>   155
gatgcatgtc cagcataggc aggattgctc ggtggtgaga aggttaggtc cggctcagac    60

tgaataagaa gagataaaat ttgccttaaa acttacctgg cagtggcttt gctgcacggt    120

ctgaaaccac ctgttcccac cctcttgacc gaaatttcct tgtgacacag agaagggcaa    180

aggtctgagc ccagagttga cggagggagt atttcagggt tcacttcagg ggctcccaaa    240

gcgacaagat cgttagggag agaggcccag ggtggggact gggaatttaa ggagagctgg    300

gaacggatcc cttaggttca ggaagcttct gtgcaagctg cgaggatggc ttgggccgaa    360

gggttgctct gcccgccgcg ctagctgtga gctgagcaaa gccctgggct cacagcaccc    420

caaaagcctg tggcttcagt cctgcgtctg caccacacat tcaaaaggat cgttttgttt    480

                                                                     502
tgtttttaaa gaaaggtgan at
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<210> 156
<211> 373
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (27)..(27)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (34)..(34)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (43)..(43)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (62)..(62)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (96)..(96)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (117)..(117)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (149)..(149)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (219)..(219)

<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (299)..(299)
<223> n is a, c, g, or t

<400> 156
ctgcgatnga gttttgagag gaaggantaa agtnctcatc tcngacggtg agaaagatca   60

tnactaagga aacgcagggt tggaagcagt gctgantgtc cagttgagtt tcatgancaa   120

acatttgctg tgggaccagt tttcatggng gtttgtcatt ttgtccagct gcctggagct   180

gcttggttga aggcacagaa taatcaggat taattgttna acttgtatga atttctttat   240

tttaaaatag gaataatatc tgccttggga gcaagttgta agagttaact gaaagcttna   300

ggaaaaactt tcccttgcta tttaagtagg gctttacaag ttacaattct atcacagttt   360

                                                                         373
taagattata aac

<210> 157
<211> 155
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (9)..(9)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (21)..(21)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (26)..(26)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (36)..(36)
<223> n is a, c, g, or t

<220>

<220>
<221> misc_feature
<222> (38)..(38)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (51)..(52)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (71)..(71)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (82)..(82)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (127)..(127)
<223> n is a, c, g, or t

<400> 157
gcggcgcanc tgcggatcca naaggncata aacgancnga acctgcccaa nncgtgtgat   60

atcaccttct nagatccaga cnacctcctc aacttcaagc tggtcatctg tcctgatgag   120

                                                                      155
ggcttcnaca agagtgggaa gtttgtctca aaaaa

<210> 158
<211> 585
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (559)..(559)
<223> n is a, c, g, or t

<400> 158
gatttactgt gggaatttgc tcatgcaatt atggaaacct agaagtccca taatatgcca   60

tcttcaagct ggaatcccag gaaagcaggt ggtgtaattc tgagattgaa gtcttgagaa   120

ccgggggagt caatggtgta actcccaatc tagggcttaa ggcccaagga ccagggctgc   180

```
tggtgtgcag atgcaaatcc tggagttcaa aggattgaga accaggagct ctggtgtctg       240

agggcagtag aagatggatg ttccagctca agaagggaaa gtaagaatcc gtccttcctc       300

cacttttttg ttctattcag atgagccctc aatggactga acgatgctca cccacactgt       360

gagggctggt cttctttatt caatccactg acttaagtgc tgatctcttc tggaaacacc       420

ttcacagaca cacccagaaa taatgttcta ccagccatgg gcctgttact tagcccagtc       480

aagttgacac agaaaattag ctatcacaac atctgtgtgt gtatatacat atgtatttgc       540

                                                                        585
atgtgtgtgt atatatggng tatatatatt catgtgtgtg tatat
```

```
<210>  159
<211>  454
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (428)..(428)
<223>  n is a, c, g, or t

<400>  159
cttttgccag taggcccct gagtaggttc ctctatcttt tggcatgacc ccagaagtct        60

ttgataactt ccttgctttc tgatgtgaca agacatccag ggccagattg tccatatcct       120

gccccggatg cacgatgcac tgtttctcca agaatccctg tgtcctttgc tgatgatgcc       180

atgattttaa gttctctaat atagttttat ctctttgttt cagataatgc ttttgtgttc       240

tcacatgtcc tgctctctct ctctctctca ttttggtgtt gatcagtctt tccataagat       300

tgtttatttc actagtcctt cattcttctt ttttctaaat ttactcttct tgactagtat       360

cctgtcactt ctgaggactc atattttgc aacttgaaaa ttattcttat ttatttaagt        420

                                                                        454
atatgttnct gaaactctca ttagacacat tttg
```

```
<210>  160
<211>  346
<212>  DNA
<213>  Homo sapiens
```

<220>
<221> misc_feature
<222> (191)..(191)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (200)..(200)
<223> n is a, c, g, or t

<400> 160
gttaaaaaaa gtaaaaggaa ctcggcaaat cttaccccgc ctgtttacca aaaacatcac   60

ctggtagcat caccagtatt agaggcaccg cctgcccagt gacacatgtt taacggccgc   120

ggtaccctaa ccgtgcaaag gtagcataat cacttgttcc ttaaataggg acctgtatga   180

atggctccac nagggttcan ctgtctctta cttttaacca gtgaaattga cctgcccgtg   240

aagaggcggg cataacacag ctgaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa   300

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aatttt   346

<210> 161
<211> 516
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (43)..(43)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (124)..(124)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (136)..(136)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (236)..(236)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (443)..(443)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (466)..(466)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (513)..(513)
<223> n is a, c, g, or t

<400> 161
cttttcatgg tctcttgttc attaatcatc taaaatccaa gcncagagaa ttcaatttta   60

gatggtctcc agagcagaat ttgatgtata atcttaatta caaatcatag ataattaata   120

ttgnttacaa aatcanaata cgattagagg tagggatcct gcacacaccc tattttcctc   180

cccagtgttc tgaccgagag actaattaat aattcaagga acttacagtg aatganaacc   240

catggttttg cttaattatc agaacagcta gatctgagaa cagctgtctc ccacatggat   300

agacacttat tccacccatt tgcaggtaga atagctggca ataataagtc cttcccattg   360

gatatgttga aaggtgcctg ccatggcata gttgccacaa gagaggaaga aatggacaca   420

aatgtaggct gttttcaggg canagggaag gtgggaggaa accaanttgc tggttttcac   480

acaccctctg gggaacaccc atgcacctat ganatg   516

<210> 162
<211> 385
<212> DNA
<213> Homo sapiens

<400> 162
gacaaaagct gagagaattt ttttcttgaa tatttgcact aaaagatagg ttaaaattct   60

tcaggctgaa gagagcatac caggtggaga tttggatcta caaaaaggaa ggaagatttg   120

gaaatggatt tggcaccatt gactcaattt ccagaacaag aaagcaggga cagttttggg   180

aagctcaaga cacactgccc atgagcagca atttggacct cctgctgcat ccactgtgca   240

tcaaacacac actgtacaga caaagactcc caggaaaaga agtataaaca tggactaaca   300

cagagatggg caaactacag cctgtgaccc agccacctgt ttatgtagaa tccaaagtaa   360

gaatctttaa cttacacata aactt   385

<210> 163
<211> 660
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (22)..(22)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (300)..(300)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (335)..(335)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (347)..(347)
<223> n is a, c, g, or t

<400> 163
gacagcagag cacacaagct tntaggacaa gagccaggaa gaaaccaccg gaaggaacca   60

tctcactgtg tgtaaacatg acttccaagc tggccgtggc tctcttggca gccttcctga   120

tttctgcagc tctgtgtgaa ggtgcagttt tgccaaggag tgctaaagaa cttagatgtc   180

agtgcataaa gacatactcc aaacctttcc accccaaatt tatcaaagaa ctgagagtga   240

ttgagagtgg accacactgc gccaacacag aaattattgt aaagctttct gatggaagan   300

agctctgtct ggaccccaag gaaaactggg tgcanagggt tgtgganaag ttttttgaaga   360

gggctgagaa ttcataaaaa aattcattct ctgtggtatc caagaatcag tgaagatgcc   420

agtgaaactt caagcaaatc tacttcaaca cttcatgtat tgtgtgggtc tgttgtaggg   480

ttgccagatg caatacaaga ttcctggtta aatttgaatt tcagtaaaca atgaatagtt   540

```
tttcattgta ccatgaaata tccagaacat acttatatgt aaagtattat ttatttgaat      600

ctacaaaaaa caacaaataa tttttagata taaggatttt cctggatatt gcacgggaga      660


<210>  164
<211>  549
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (22)..(22)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (300)..(300)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (335)..(335)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (347)..(347)
<223>  n is a, c, g, or t

<400>  164
gacagcagag cacacaagct tntaggacaa gagccaggaa gaaaccaccg gaaggaacca      60

tctcactgtg tgtaaacatg acttccaagc tggccgtggc tctcttggca gccttcctga     120

tttctgcagc tctgtgtgaa ggtgcagttt tgccaaggag tgctaaagaa cttagatgtc     180

agtgcataaa gacatactcc aaacctttcc accccaaatt tatcaaagaa ctgagagtga     240

ttgagagtgg accacactgc gccaacacag aaattattgt aaagctttct gatggaagan     300

agctctgtct ggaccccaag gaaaactggg tgcanagggt tgtgganaag tttttgaaga     360

gggctgagaa ttcataaaaa aattcattct ctgtggtatc caagaatcag tgaagatgcc     420

agtgaaactt caagcaaatc tacttcaaca cttcatgtat tgtgtgggtc tgttgtaggg     480

ttgccagatg caatacaaga ttcctggtta aatttgaatt tcagtaaaca atgaatagtt     540
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tttcattgt

<210> 165
<211> 660
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (22)..(22)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (300)..(300)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (335)..(335)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (347)..(347)
<223> n is a, c, g, or t

<400> 165
gacagcagag cacacaagct tntaggacaa gagccaggaa gaaaccaccg gaaggaacca   60

tctcactgtg tgtaaacatg acttccaagc tggccgtggc tctcttggca gccttcctga   120

tttctgcagc tctgtgtgaa ggtgcagttt tgccaaggag tgctaaagaa cttagatgtc   180

agtgcataaa gacatactcc aaacctttcc accccaaatt tatcaaagaa ctgagagtga   240

ttgagagtgg accacactgc gccaacacag aaattattgt aaagctttct gatggaagan   300

agctctgtct ggaccccaag gaaaactggg tgcanagggt tgtgganaag tttttgaaga   360

gggctgagaa ttcataaaaa aattcattct ctgtggtatc caagaatcag tgaagatgcc   420

agtgaaactt caagcaaatc tacttcaaca cttcatgtat tgtgtgggtc tgttgtaggg   480

ttgccagatg caatacaaga ttcctggtta aatttgaatt tcagtaaaca atgaatagtt   540

tttcattgta ccatgaaata tccagaacat acttatatgt aaagtattat ttatttgaat   600

ctacaaaaaa caacaaataa tttttagata taaggatttt cctggatatt gcacgggaga   660

<210> 166
<211> 542
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (94)..(94)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (140)..(140)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (527)..(527)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (530)..(530)
<223> n is a, c, g, or t

<400> 166
gaattgtgat agttcagctt gaatgtctct tagagggtgg gcttttgttg atgagggagg   60

ggaaactttt ttttttcta tagactttt tcanataaca tcttctgagt cataaccagc   120

ctggcagtat gatggcctan atgcagagaa aacagctcct tggtgaattg ataagtaaag   180

gcagaaaaga ttatatgtca tacctccatt ggggaataag cataaccctg agattcttac   240

tactgatgag aacattatct gcatatgcca aaaaattta agcaaatgaa agctaccaat   300

ttaaagttac ggaatctacc attttaaagt taattgcttg tcaagctata accacaaaaa   360

taatgaattg atgagaaata caatgaagag gcaatgtcca tctcaaaata ctgcttttac   420

aaaagcagaa taaaagcgaa aagaaatgaa aatgttacac tacattaatc ctggaataaa   480

agaagccgaa ataaatgaga gatgagttgg gatcaagtgg gattgangan gctgtgctgt   540

gt   542

<210> 167
<211> 421
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (220)..(220)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (245)..(245)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (351)..(351)
<223> n is a, c, g, or t

<400> 167
cttgaacctc ggaggcagag gttgcagtga gccgagatca cgccactgca ctccagcctc   60

ggggacagag caagactcca tctcaaaaca cacacacaca cacacacaca cacacacaca   120

cacacaaaac agatatacac tgaacacagc acaagtggga cataagagat ttaaaagggt   180

tagagatgta aaatggatct aggaatggaa accataaggn gggatttatc aactggattc   240

tgcanaatgc tgttaaggcc agatgttagc aggtgttaca taaaaaaggg ataccatgag   300

caaaagtatt tgaacatggg caatggttga aacaagttta aacagattat ntttattacc   360

aaatctctca aacctttaat atgctataaa cattgtgaaa caataaaaaa actttccaaa   420

a   421

<210> 168
<211> 472
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (152)..(152)

<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (460)..(460)
<223> n is a, c, g, or t

<400> 168
gggaagggag ctatgagtgt gtgtgttgtg tatggactca ctcccaggtt cacctggcca   60

caggtgcacc cttcccacac cctttacatt ccccagagcc aagggagttt aagtttgcag   120

ttacaggcca gttctccagc tctccatctt anagagacag gtcaccttgc aggcctgctt   180

gcaggaaatg aatccagcag ccaactcgaa tcccctagg gctcaggcac tgagggcctg   240

gggacagtgg agcatatggg tgggagacag atggagggta ccctatttac aactgagtca   300

gccaagccac tgatgggaat atacagattt aggtgctaaa ccgtttattt ccacggatg   360

agtcacaatc tgaagaatca aacttccatc ctgaaaatct atatgtttca aaaccacttg   420

ccatcctgtt agattgccag ttcctgggac caggcctcan actgtgaaag ta   472

<210> 169
<211> 638
<212> DNA
<213> Homo sapiens

<400> 169
ggcggaggtt gcagtgagct gagatggcgc cattgctctc ccagcctggg tgacaagagc   60

aaaactccgt ctcaaaaaaa aaaaaaaaaa aaaagcaat ttacttaaaa acatacaaac   120

acagagacaa gtatttttga gaaacaaata cctttttcat ttttatacc aatgtaacaa   180

taatccatta aacacacctt tactaactgt tttctaggag tctgatatga tgaggaaata   240

ggtaaacctt aatagccag tactaaatta gagtggcaca actttcactg ggaaaaaaga   300

tgggtatttt acttttctgt tttagaaaag tggcttgaca acagtatgct tatgtcttag   360

agtttgaaat tcaagttctt gaacattatt aatggctaca atcattcata cccacattgg   420

gctgtattct tgatgaatcc aaagtgattt tcacctcaac tctgaatttc attctcctct   480

tttgaatata atacaaccat ctcactagag gaagcatttc agtctttct gattggagat   540

tcattattgt tttagataat gtttttcattt gcttatgggt atataaaaaa ttttatctta   600

aaaatatttc ctctcattta gctagcaaca ttgttttc

<210> 170
<211> 512
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (432)..(432)
<223> n is a, c, g, or t

<400> 170
ctcagggtga tctctgaacc caaacttgcc ccaaagaagg ttgctctgtc ctctccacat   60

ccccatctcc tccctagggc cttgttgggg agaggctcct ccatctttcc caagtcacac   120

catcgtttcc tacgtggtct ggacaagagc aagagcacac cttgtcccca ccttctccag   180

agcagccaga acccacctca ggtgccttcc ccatccggtg cagttaaggc acttctgcca   240

gcaccatggt atgagcacta gacttggagt taagatttga gagcccctc tgtcactgtg   300

gaagcttgag catgttgctt gatctctctg aaccttgtgt ttctcatctg tgaaaggtga   360

taatgtgggg ctgctgtgag atttaaagga cataatgcac ctacggtcca agcactgcct   420

ggaatacagc anaagctcaa cagatactgg acaacccatc cccttagtag aggcactaac   480

                                                                          512
catgtgaccc aaggcaaaag tgcttaaaaa aa

<210> 171
<211> 580
<212> DNA
<213> Homo sapiens

<400> 171
attgcatgca agtttgctga gctgaaggaa aagattgatc gccgttctgg taaaaagctg   60

gaagatggcc ctaaattctt gaagtctggt gatgctgcca ttgttgatat ggttcctggc   120

aagcccatgt gtgttgagag cttctcagac tatccacctt tgggtcgctt tgctgttcgt   180

gatatgagac agacagttgc ggtgggtgtc atcaaagcac tggacaagaa ggctgctgga   240

gctggcaagg tcaccaagtc tgcccagaaa gctcagaagg ctaaatgaat attatcccta   300

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atacctgcca ccccactctt aatcagtggt ggaagaacgg tctcagaact gtttgtttca      360

attggccatt taagtttagt agtaaaagac tggttaatga taacaatgca tcgtaaaacc      420

ttcagaagga aaggagaatg ttttgtggac cactttggtt ttctttttttg cgtgtggcag     480

ttttaagtta ttagttttta aaatcagtac tttttaatgg aaacaacttg accaaaaatt      540

tgtcacagaa ttttgagacc cattaaaaaa gttaaatgag                            580
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<210>   172
<211>   541
<212>   DNA
<213>   Homo sapiens


<220>
<221>   misc_feature
<222>   (188)..(188)
<223>   n is a, c, g, or t

<220>
<221>   misc_feature
<222>   (538)..(538)
<223>   n is a, c, g, or t

<400>   172
gcaacctgca caaccccgcc ctgttcgagg gccggagccc tgccgtgtgg gagctggccg      60

aggagtatct ggacatcgtg cgggagcacc cctgcccccct gtcctacgtc cgggcccacc    120

tcttcaagct gtggcaccac acgctgcagg tgcaccagga gctgcgagag gagctggcca     180

aggtgaanac cctggagggc atcgctgctg tgagccagga gctgaagctg cggtgtcagg     240

aggagatatc caggcaggag ggagcgaagc ccaccggcga cttgcccttc cactggatct     300

gccagcccta catccggccg gggcccaggg aggggagcaa ggagaaggca ggtgcgcgca     360

gcaagcgggc cctggaggaa gaggagggtg cacggaggt cctgtccaag aacaagcaaa      420

agaagcagct gaggaacccc cacaagacct tcgacccctc tctgaaccaa aatatgcaaa     480

gtgtgaccag tgtggaaacc caaagggcaa cagatgtgtg ttcagcctgt gccgcggntt     540

g                                                                      541
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<210>  173
<211>  671
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (610)..(610)
<223>  n is a, c, g, or t

<400>  173
ggaatagaat  tttaaatagt  aataactgct  tgtttttttt  gtgcaagtac  ttttatacat        60

aagataaaca  aaaaccttac  caccaaacat  accaaaatgc  acctctttca  taagtgagtt       120

actaagattt  ctatacctgg  aatatcatgt  atgtttcatt  tactggatgt  ttacatttta       180

ggaaggaaaa  tagttttgtt  tatttaaaca  actgaatact  tataaactgt  tgttcctgga       240

agttatttat  tccataaaaa  atttgttctt  ttgtcatgaa  tttataattc  ctaaatgaag       300

accagaaagt  acaaattgct  gggaggaaga  ataggcttta  ttaatcaact  gatgtcttga       360

tttttctaaa  tgggaagatt  gctttatttt  taacactaat  tatgggagca  gattcttagc       420

aaacttcttt  ggaaaagtta  atgttatgat  gtgcattagg  ctgccccatc  gtgtatataa       480

atgaagcaga  tttgattttt  gtattcttac  gtttctctgc  tttgtagttg  tggctgtact       540

taaagaaata  cagaatttca  tatatttaaa  aatgtttaaa  atgtgaccca  cagacattgt       600

aaatggattn  aaaactaaca  tgaaaaatat  tcaacctaaa  agaattctta  acttcacaag       660

                                                                            671
tgttttactt  c


<210>  174
<211>  607
<212>  DNA
<213>  Homo sapiens

<400>  174
cttggttccg  cgttccctgc  acaaaatgcc  cggcgaagcc  acagaaaccg  tccctgctac        60

agagcaggag  ttgccgcagc  cccaggctga  gacagggtct  ggaacagaat  ctgacagtga       120

tgaatcagta  ccagagcttg  aagaacagga  ttccacccag  gcaaccacac  aacaagccca       180

gctggcggca  gcagctgaaa  tcgatgaaga  accagtcagt  aaagcaaaac  agagtcggag       240
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tgaaaagaag gcacggaagg ctatgtccaa actgggtctt cggcaggtta caggagttac   300

tagagtcact atccggaaat ctaagaatat cctctttgtc atcacaaaac cagatgtcta   360

caagagccct gcttcagata cttacatagt ttttggggaa gccaagatcg aagatttatc   420

ccagcaagca caactagcag ctgctgagaa attcaaagtt caaggtgaag ctgtctcaaa   480

cattcaagaa aacacacaga ctccaactgt acaagaggag agtgaagagg aagaggtcga   540

tgaaacaggt gtagaagtta aggacataga atttggtcat tgtcacaaag caaatgtgtc   600

                                                                          607
gagagca

<210> 175
<211> 583
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (94)..(94)
<223> n is a, c, g, or t

<400> 175
gtcaccaaga gcttgttgtc aggttttcac ttgctattcg cagagatttt ttttaaaggc   60

actatttgta gtgttaaaag ggtgaattta tcanaaggca taataatcat aaatgtgtat   120

atgcctaata atagaacttt aaaaggcatg aagcaacact caaaaggatt aaagggagat   180

catctcaccc ccttcttacc aattgataga atgatctgat gaaacagta aaataacaac   240

agatctgaac actgtcaacc atcttgacaa atacttatgc ctagtgttcc attattggaa   300

cactaaacat gtggaatgat ttatatccta ctgctcaagg tcatcaccaa ggtctaattg   360

taaaatttca aaaaattgca acctcaggca taaatgggtt aatcgacatt tatagcacac   420

acatgcaaca tgtaccagag attccttctt ttctatgaac atggtacttc caccaagata   480

gaccacattg tgaactataa aacaaatcta aaaacatttg aaatgaagga aattatataa   540

                                                                          583
aatatgttct cttgatctca atgaaattaa attaatacta tat

<210> 176

<211> 549
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (417)..(417)
<223> n is a, c, g, or t

<400> 176
ctcatggcgg ccaatgtagg cccaaaactt cctcaagtca aactctccag gcccaccttc   60

tgcttcccgg tggcatcaac aggcccagct ttgacttgag aacagcctct gcaggccctg   120

ctcttgcctc ccaggggctt tttccaggcc cagctcttgc ctcatggcag ctgccccagg   180

ccaaatttct gcctgcctgc cagcagcctc aacaggcaca gctcctccct cacagtggcc   240

catttaggcc caactcatga ctgtgaggcc attccaggc ctagtgcctg cctcgtggct   300

gactcttgaa gcccaaaact tcctcaaatc agccttttgc ccaacttctg tctactgtcg   360

gactctacag gtcagcctct gcctcacagt ggaccctcca gacccagatg gtgtctnctg   420

tggcatcctc aggcgaagct cctgcctttc ggcagcctct ccaggcccag ctcctcctgc   480

tccagccttc tctccaggct ctgaactttc tcaggtctcc ctctgttgtc caaggctgga   540

                                                                   549
gtgtagtag

<210> 177
<211> 662
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (581)..(581)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (602)..(602)
<223> n is a, c, g, or t

<220>
<221> misc_feature

<222> (644)..(644)
<223> n is a, c, g, or t

<400> 177
tatatatgta atgcccttaa cctagtgttt ggcatgatcg ttgctgaaag ggaagcttgt   60

gggtacagtg tcccctcaga agccaaagcc cagggaaggt cgcctgccca ggtcaggctc   120

ccagcgagtt tgtctgggga ggggccattc atacctccag gtcaggacag aggctcgggc   180

tgagggaacc ctacacaggt cctggaagca gatccttcct gcctaagcca gcaggacagc   240

tcaacaggaa gcatcttcca gccacgggag gagaggcagc acctttttg gaaccataca   300

gagctaagaa tggtggtaca agtaatagat tctgtactgg caaccccact tggtggagca   360

agttctagga aaggggggct gtccttgagt cagccatggg gtcagccaca cagtcaccgc   420

agctgctctt tggcaccggg cgctggaaag acctaggatg acacagcctg gaaagagctt   480

gggaaaagct catcttccac agaactacct gctataccag ccagggcagg tgcttattcc   540

cacaacagcc ctctgttgta ggcggcagtg ccatcctgaa ngtgccgtgg taccttctga   600

anacccagct gagggcctgt aatggcactt gcatgccaca tggnacaccc tttcccggtt   660

aa   662

<210> 178
<211> 339
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (14)..(14)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (17)..(17)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (59)..(59)
<223> n is a, c, g, or t

<400> 178

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accgcggccg cgtnaanaaa aaaaaaaaaa gaattccact tgatcaactt aattccttnt      60

ctttatcttc cctccctcac ttccctttttc tcccaccctc ttttccaagc tgtttcgctt     120

tgcaatatat tactggtaat gagttgcagg ataatgcagt cataacttgt tttctcctaa     180

gtatttgagt tcaaaactcc tgtatctaaa gaaatacggt tggggtcatt aataaagaaa     240

atctttctat cttaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa     300

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaa                           339
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<210> 179
<211> 457
<212> DNA
<213> Homo sapiens

<400> 179

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ttagagaggt gaggatctgg tatttcctgg actaaattcc ccttggggaa gacgaaggga      60

tgctgcagtt ccaaaagaga aggactcttc cagagtcatc tacctgagtc ccaaagctcc     120

ctgtcctgaa agccacagac aatatggtcc caaatgactg actgcacctt ctgtgcctca     180

gccgttcttg acatcaagaa tcttctgttc cacatccaca cagccaatac aattagtcaa     240

accactgtta ttaacagatg tagcaacatg agaaacgctt atgttacagg ttacatgaga     300

gcaatcatgt aagtctatat gacttcagaa atgttaaaat agactaacct ctaacaacaa     360

attaaaagtg attgtttcaa ggtgatgcaa ttattgatga cctattttat ttttctataa     420

tgatcatata ttacctttgt aataaaacat ttttccc                            457
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<210> 180
<211> 658
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (11)..(11)
<223> n is a, c, g, or t

<220>
<221> misc_feature

<222> (128)..(128)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (135)..(135)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (177)..(178)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (199)..(199)
<223> n is a, c, g, or t

<400> 180
cgtctatttg ngtttcttct cacaattggt aagttctctg tattgattga tggctaagtt   60

tgattagtgt ttttctctag ttggtaatta tattctagta ttttatcatc ttattgttta   120

ctcaactnaa agtgncacag aagagttgcc aggtttctct ttgatatgag atctctnntt   180

gatttggaat gcaaatcana agtgtcatgt tttgaataaa gggaccagat gacttatagg   240

tattctttct ctaaatataa ctaaggtaag atttttgttt tgaggtactt aatctatata   300

agtggtaaag aatttacttg aatttctcca aattctcatg tctaaagtct gattgattaa   360

attcattctt ggtatttcat tttgaaaaga atgtagcttt agcaaacctc tttgtataaa   420

tgcagtggga ttaaggtcat ttaaaaaatt gttatatcat tgtattttta aaatttacca   480

gttttatttt tctttttacc ctttagcccg gcctcagaaa gtgtgtttgt gtccatttct   540

cccagcgcac cctctgcata tctctaccca cttgtcataa ttcagcatcc agcagaggaa   600

aacaaagtgt tgcgtacagt tcctctacta gcagcatgcc tcccccagga caagtgta   658

<210> 181
<211> 452
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (217)..(217)
<223> n is a, c, g, or t

<400> 181
ttattgctga cataaaaatg gtgcacatcg gccagggccc aggatgaatc agccaatctg   60

caccatttat acatggaact ggagaacatt gtgccaataa tcatttaata tatgccaaat   120

cttacacgtc tactctaaac tgctctaatg aagtttcagt gaccttgagg gctaaagatt   180

gttcttctgg gtaagagctc ttgggctggt ttttcanagc agagttcttg ttgtgggtag   240

actgtgacta ggttcacagc ctttgtggaa cattccgtat aacggcattg tggaagcaat   300

aactagttcc tatgaaagaa ccagagctgg gaagatggct gggaagccag gccaaagtgg   360

gggcaacagc ttgcttctct ttctcttctc accctcagtt tgtatgggaa aatggagatg   420

tcctctccac tttatcccac gatatctaaa tg   452

<210> 182
<211> 209
<212> DNA
<213> Homo sapiens

<400> 182
caggatatcg agaccatccc agacagcatg gtgaaactcc gtctctactg gaatacaaaa   60

agttagccgt gtgtggtggc acgcgcctct aatcccagct attcgggagg cttaggcagg   120

agaattactt gaacccggga ggcgaaggtt gcagtgagct gagatcgcac cattgcactc   180

caccctggcg acagagcaag actccgtct   209

<210> 183
<211> 541
<212> DNA
<213> Homo sapiens

<400> 183
cagccaaccc agaaggagcc agtctacaac tatgcctgat cctcctcatg gcaggccacg   60

aagcattgct gccatgtgtt gaattataaa acccacattg ctttttgaac cctgttgcgg   120

gtaaaaataa ccaaattatc agtccttgga aacccaggca atcaagtgag tacaaggtaa   180

agataagtat ggtttagagg agaaattatg ttcctgaact ggtgtccttt gatggcagcg   240

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tcagccttgc taagtcagag tagagggagc agtgacctta ataagctttg gtgagcatca      300

tgtgcacgcg tgggtgggag tcccttttcac tgatgctttt aaaagtgctt ttgcagaccc      360

tggaagggat cctccacaca tatgaggtgt gggacaggta ggccagagag gattagccct      420

gctttcgaga ctagaaatct acagtcctga aggagcagta attaattggt acacctgtca      480

gggccagccc ccaggtctcc tggctttttc caggttttct gtctcacatg attttgcttt      540

t                                                                        541
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<210>   184
<211>   640
<212>   DNA
<213>   Homo sapiens

<400>   184
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ctttaatttt tcaagtgttt aaaaaacaat tttatactta agccagcctt gaagataagc       60

acaaaattta ccagtttaca tttaaaaaac aaacaaaaaa cgacaacaac tcaagcaccc      120

gctctgtgca tagcactatt ctaggtgcaa taaaagggaa tcttaacctt agaaatatga      180

gttcactttc tggaattgta ttatctcctt ttccagagag taaaaataaa taaaatcacc      240

attgtttact acagatctgc cccaaaccac atctggttca cagaaaggct aatttctgcc      300

aaattaaaga tgtaatgaac tcagttcctg ctttcccaaa aacacgaaag cagaattcct      360

tttcactgaa aaaaataaac agttttccat gcaagggcag tttgcttcta ataagtattt      420

tttaaaaaat ttttttttcc tctagctttt ctttaaattt tcttcctcta atattgcctt      480

ttcttgtaca aggcagacca ggtatctttt tatgctgttt ttcctttact aagaaaagta      540

ttgcatcttg aagacaaacc atttcccaga gtagtgataa aaaataacac taaaaaaact      600

ttaaaggtga gtcacttcat caccttgatg aagtaaaaaa                            640
```

<210>   185
<211>   633
<212>   DNA
<213>   Homo sapiens

<400>   185
```
ggaaaaaata tttccactta gatattttac atggttttgt ttaaaattac cattacttgt       60
```

```
tttttaaaaa cacatgacca catatgtata tgtatatcta cctaaacatt gtatcatggt          120

ttcagtatgt tattcatgta ttactgggag atgctaccaa gaaaccaacc caaagaaaat          180

tctggaaaat acatttctat ttatagaata aatgtttcat ttatataaaa gcaaaagaac          240

ttagagttct aataaatggg atgtctaata aattatgaag ttactgattt gaatatatta          300

tatttttata acttccttgc caaagtcctg atttagtaca ttagagaacc tgtgtttcct          360

ctctcctcta ccattcatct ctcttccata cagtcatttg gcttttttac tcaaagagaa          420

tcaagaaata ataaggtata acaagcttgg caaagtgttg gcttttaaa aaaaaatttt          480

tttaatctct agcagtttgg taatttagca gcatcattta tttgggattc ttttatctga          540

tttcaacagt gaaaaacatc cctatgataa agcctaatga cccatttcca aaagatggaa          600
                                                                          633
ttgcccttcc tagaaaatat gacggagaaa agt
```

<210> 186
<211> 502
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (210)..(210)
<223> n is a, c, g, or t

<400> 186
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cgaatagcca agtggtctga caagatcgag agtaatgagg cccatacttt agtacagtct           60

tgaatggcca gatggtgctg ggcatacccc aaccagagat atgtaagtct ttatgttgtc          120

aaaatttccc agaaacatga atttcccact aagattcatt aaggaaaact agaatgaaaa          180

caaaaacgtt ccttgtataa tattcattan aaagaaatga agaaggccgg gcatggtggc          240

tcacgcctgt aatcccagca ctttgagagg ccaaggtagg cagatcatga ggtcaggagt          300

ttgagaccag cctggccaac atagtgaaat cccgtctcta ccaaaaatac aaaaaaatta          360

gccgggcatg gtggcacaca cctgtcatcc cagctactca ggaggctgag gcaggagaat          420

tgcttgaacc tgggaggtgg aggttgcagt gagctgagat tgcaccactg tactacagcc          480
                                                                          502
taggtgacag tgcaagactc tg
```

```
<210>  187
<211>  316
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (55)..(55)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (305)..(305)
<223>  n is a, c, g, or t

<400>  187
cctatgccaa actaaagaaa gcttgcctgg cctacaggcc taaaggttca aatgnggatt      60

aaaaaaacac agtagtcaca taaaatgtct gctggctggc tggaattcca tcacctacaa     120

tttacctgct ttcaaaaact gtgttcaaca ttgagaaaac agaaaaccac ttatcttgag     180

cttaatatgg gcttcttttt ccttaactgt agaacactta ctgaaatatc aaatcaatgg     240

ttaggatatg tatcctaggc aggcctaaac cattaacact tggtttaagc aactttgtat     300
                                                                      316
aattnacctc ctaaat


<210>  188
<211>  316
<212>  DNA
<213>  Homo sapiens

<400>  188
cttcatgagt gcccggttgc ccaagtcaaa aacctgggag tgatataaac tccccacaca      60

tccagtcagt cactcatcaa ctctattgat tctgctgcta aatatatctc aattgtatta     120

acttaaacat atgcataata catcttcttc ttcactgcat ttttgtgggc tgcacttacc     180

tttcaggtaa caacaacact ggcccctctt gcccttctag tcagaagtgc caaaatgatg     240

agagctagcc atgacaaacc cacagccaac attacactga atgtgcaaaa ctggaagggc     300
                                                                      316
atccaaacag aggagg
```

<210> 189
<211> 644
<212> DNA
<213> Homo sapiens

<400> 189
tagaattctc gcctgccttg gcttctccct ctagttgttc cttctctgtc ttctgtgggc   60

ttcttattgt ctgctcactc cttcttcagt gtcctctcat gggcttcctt cccttctcag   120

ctgatgccat cacctgggga atcacagtta ctcagcagca ctggggcctc tctatctcta   180

tgctggtcat gcctatgtgt gagctgcaga cccagtggaa tttccatttg tgcatcccat   240

gcccagccca ccctccacca gcctcgaatg cagctgttca gccctacccc agtcctcaga   300

aaagttcctc tccctggatc ctctttttcc ttcatgagtg cccggttgcc caagtcaaaa   360

acctgggagt gatataaact ccccacacat ccagtcagtc actcatcaac tctattgatt   420

ctgtctgcta aatatatctc aattgtatta acttaaacat atgcataata catcttcttc   480

ttcactgcat ttttgtgggc tgcacttacc tttcaggtaa caacaacact ggcccctctt   540

gcccttctag tcagaagtgc caaaatgatg agagctagcc atgacaaacc cacagccaac   600

attacactga atgtgcaaaa ctggaagggc atccaaacag agga   644

<210> 190
<211> 631
<212> DNA
<213> Homo sapiens

<400> 190
ctgaggtggg aggattccac tctcacccat ttcttctttc attttcagtt tctccagtta   60

gtaactgaag atgttctttg agtaattaag tgagtgagaa aatttttaag tgagaaatct   120

ataaaaagaa ccatgttaac ataaatattt cagtccttac aagttggtat tgacttttct   180

cattggtaat ctgactgatt taatactgct cattccaata tctggtgatg taattctggt   240

tatgaatcct tgtattaata acacctcctg ggaggttttt tttccccaac attacattca   300

gaatattaga gctgaaaata cctttttttaa ggttatcagg aggagggagc ttatgtttaa   360

tgtggtggat aaaacttaac tgctggttaa tacaattgtt attcaggtga aattccctaa   420

```
acttttcacg tgcaaagttt tgtatgtata cagacatttg gggaaaagtt ttatcatccc    480

taaaaccggt tactgtccag aaaatgataa gaatccctgg gttccaaatc cttcataagg    540

tatttattca tttatttatt caacacattt actcaatgcc tccgctctgc tgcaactaca    600
                                                                      631
ctgacattct gcttctaatc taaccgaaaa t
```

```
<210>   191
<211>   638
<212>   DNA
<213>   Homo sapiens

<400>   191
tttcaaattg tacaataaca caaacaactt tgttaaggcc atgttttatt tgctgattaa    60

tggacaaaag gcaatgtaat ttattttcaa gtattttctt gaaagtctgt gctcataaaa    120

atcatgaaaa gttggaaaga ctgttaaatc actgaaactt caaatatatc ttacacaatc    180

ttgtttgtac aaaaatacaa gttaaatata aacataaagc aatcatggta attttatgca    240

aatctgtttt atgtgatcat cagttatata taaaagtttc tcagttctgt tatttgtgaa    300

aagatcaata ccagattgaa tgactaccta ttggcaaagg ccctaaaaa gcttacttta     360

gcactcatct tttacatggt taaatgcatt tcctaatttg agatcaccta aacactggaa    420

aagaaaaaaa atgaaagggc agtatgtcca taaaccaaca aataatttgg ctgtaatgta    480

tcataaaaca caaaccccac acatctgtac aataaacatt atgtattaca tacacacaac    540

acacacccag tcataaagcc taatgatgtg ctgcttccag ttcaatattc agctgtgcat    600
                                                                      638
tttttcttat ttcatcaaat gaatagcttt ttgtcacc
```

```
<210>   192
<211>   283
<212>   DNA
<213>   Homo sapiens

<400>   192
gtaaactgtt ctctccgagg gaaaaaatgg aagttatcct cacagttcac tgccgtggta    60

tttcttctgt cccatgcttt gcatgactgc catggtacag ccttgtttca aactgttcac    120

tgtgatctgt gggtctttga gtttcagtga gtttgctgaa atgtcgaaga agtagttcca    180
```

aacttcaatg ttcaatgaaa ttttttgttca agtttgaaat ggagagagca gctttaaaag   240

gtactaagcc ttttacaaat tggtgagtac tggcacatga gat   283

<210> 193
<211> 613
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (68)..(68)
<223> n is a, c, g, or t

<400> 193
ttttttttttt tccttaaaag gtaaccccta aacacagcta aaactatgcc atcagctgac   60

tccaaggnac acacagtcct gtatctggaa ctactgagtg gcaggcatct ttctctgcct   120

ctgacagtgg agtccccatc actgcagagc atagccaaag gagtcaaagg tctcagcggg   180

tcactgcctt atcaaccctc accagtccct tatgttttt aatatttat aatcttgaca   240

tgacaccaag atgctttaat aaaaaagcac ctctaactcg gtcttgtatt cacttacctt   300

gagcctggga cttctctagg ctcctgaggc aaaaacaggt agaggggaga tggtggaaca   360

taaaacacaa ttttgcttgg cacccacctt ggcgtctgtc cccatgacca ggtctttcaa   420

ttcgatgatt ttgtcattga tggaggagcg atatcgtttc tcaatgatat tatgggttgt   480

ccgcctttct ccttctttgg ggggctcaag ctgcttgact cccccaggta cctgcttaat   540

ggggcacttt ctcttgcccc atcattacag gcattgtggt cagaatggtc ccactgctgc   600

ccaccagggt cta   613

<210> 194
<211> 350
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (261)..(261)
<223> n is a, c, g, or t

<400> 194
ctagtctttt catagtctgc atagagtctg gccattacca tcagtttttta agatgtccat   60

attgtggccg ggcgcggtgg ctcacgcctg gtagtcccag cactttggga ggctgaggca   120

ggtggatcat gaggtcagga gatcgagacc atcctggcta acacggtgaa accgtctct   180

actaaaaaaa atattaaaaa attggccagg cctggtggtg ggcgcctgtg gtcccggctg   240

cttgggaggc tgaggcagga naatggtgtg aacccggaag tcggaggttg cagtgagcca   300

agattgcacc tgggcaacac agcgagactc cgtctcaaaa aaaaaaaaaa   350

<210> 195
<211> 541
<212> DNA
<213> Homo sapiens

<400> 195
caattatttta ttaccttttcc atttgttcgc ctgatgatgt gacaatgcat ggtctttgtg   60

catgctgcta gacacttttc tttcccagcc gaaaagtcta ttatgtaatt tttacattca   120

taattttaat gtggatgatc aggattaaat caagatatat atctggaacc tcttataaat   180

ggagcactta gaaatttgtt gttctgcact taacctagag agagaaaaaa tgctttttctt   240

tgtgaaaaat ctgaattcct gtcctgacct tctgtgatgt ggaaaccta ggctctgaga   300

cacactctct ggtgtctgag acagaaccaa agcaataacg ttgtgatgcc cacaggcctg   360

gagccagcta gcgaccttgt gccgcccagc tgtccatggc ccgtgcagag cagaggacag   420

tgagtgtctg cactgagaac cttaaaccac agttgaacat acccacacct gtttgtctta   480

agctatagtg taaaaacaaa gtttgggctc tgaaaattta actgaaaaag atttccttgt   540

t   541

<210> 196
<211> 336
<212> DNA
<213> Homo sapiens

<400> 196
gtggcagcag gcgcagccca gcctcgaaat gcagaacgac gccggcgagt tcgtggacct   60

```
gtacgtgccg cggaaatgct ccgctagcaa tcgcatcatc ggtgccaagg accacgcatc        120

catccagatg aacgtggccg aggttgacaa ggtcacaggc aggtttaatg gccagtttaa        180

aacttatgct atctgcgggg ccattcgtag gatgggtgag tcagatgatt ccattctccg        240

attggccaag gccgatggca tcgtctcaaa gaacttttga ctggagagaa tcacagatgt        300
                                                                         336
ggaatatttg tcataaataa ataatgaaaa cctaaa
```

```
<210>  197
<211>  377
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (128)..(128)
<223>  n is a, c, g, or t

<400>  197
cagcagcaga aatgtttgca agataggcca aaatgagtac aaaaggtctg tcttccatca         60

gacccagtga tgctgcgact cacacgcttc aattcaagac ctgaccgcta gtagggaggt        120

ttattcanat cgctggcagc ctcggctgag cagatgcaca gaggggatca ctgtgcagtg        180

ggaccaccct cactggcctt ctgcagcagg gttctgggat gttttcagtg gtcaaaatac        240

tctgtttaga gcaagggctc agaaaacaga aatactgtca tggaggtgct gaacacaggg        300

aaggtctggt acatattgga aattatgagc agaacaaata ctcaactaaa tgcacaaagt        360
                                                                         377
ataaagtgta gccatgt
```

```
<210>  198
<211>  63
<212>  DNA
<213>  Homo sapiens

<400>  198
tactcaatga aaaccatga taattctttg tatataaaat aaacatttga aaaaaaaaa          60
                                                                          63
aaa
```

```
<210>  199
```

<211> 565
<212> DNA
<213> Homo sapiens

<400> 199
caggatcaag gtgaaaagga gaaccccatg cgggaacttc gcatccgcaa actctgtctc   60

aacatctgtg ttggggagag tggagacaga ctgacgcgag cagccaaggt gttggagcag   120

ctcacagggc agacccctgt gttttccaaa gctagataca ctgtcagatc ctttggcatc   180

cggagaaatg aaaagattgc tgtccactgc acagttcgag gggccaaggc agaagaaatc   240

ttggagaagg gtctaaaggt gcgggagtat gagttaagaa aaacaacttt ctcagatact   300

ggaaactttg gttttgggat ccaggaacac atcgatctgg gtatcaaata tgacccaagc   360

attggtatct acggcctgga cttctatgtg gtgctgggta ggccaggttt cagcatcgca   420

gacaagaagc gcaggacagg ctgcattggg gccaaacaca gaatcagcaa agaggaggcc   480

atgcgctggt ccagcagaa gtatgatggg atcatccttc ctggcaaata aattcccgtt   540

tctatccaaa agagcaataa aaagt   565

<210> 200
<211> 629
<212> DNA
<213> Homo sapiens

<400> 200
cagaagagta agcaaatctc aaagcagcga aagggaagaa actaaaaaag gtagagcaga   60

aataagagaa aatagagaag agaacaattg agaaaaataa ttgaaaccaa aaggtggttc   120

tttgaaaagc ctaacaaaat ggacacatct ttagttagag tgaccaagaa aaaagggcag   180

tgactcagat tacttcattc aagagtgaaa gagggcacat cactaccaat ttacagaaat   240

aaaaaggatt atgaggaaat actacagata attgatgaca ttaacttaga agaatatatt   300

tcaagaaaga cacaaactac tgaaaccgac tcaagaagaa acagaaaatc tgaacagacc   360

tataaaaaat agagatttaa ttgatattca gaaagtttcc caaaaagaaa agcactggcc   420

aagatgactt cactggtgaa ttctatcaag tgtcaaagat gaattactga cattcattca   480

cactccttta agaaatagaa gaggggacat cactttcaa agcatcgaca ttctaatcat   540

tagtcccttg gtttcctgct cccaaagcca ggtgatgtat cacaaaaaaa cccctacaga   600

cccactgggc acaatggctt tatgcctat   629

<210> 201
<211> 98
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (13)..(13)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (35)..(35)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (68)..(68)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (91)..(91)
<223> n is a, c, g, or t

<400> 201
ctttgctcga atngtcagat aaggattctg tgaanggaga tgagatttcc atccatgctg   60

actttganaa tacatgttcc cgaattgggg nccccaaa   98

<210> 202
<211> 224
<212> DNA
<213> Homo sapiens

<400> 202
ctcaagtgtt ccctcagctt aggctttgtt taaatgatcc cacccagggg cgatggtagg   60

gaacaacagg gtcactaaac tatttggctg gctacaactc tgggaaatgg taagacaggg   120

aaaggccatg ttgttcattc ccttgtgcag atctagggag aaccgcagag agaacagtta   180

gcatttcttg ttcaatgaat tatcctatta agaacactgg atgt   224

<210> 203
<211> 81
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (70)..(70)
<223> n is a, c, g, or t

<400> 203
cggncgcggt cgacgctact cctacctatc tcccctttta tactaataat cttataaaaa   60

aaaaaaaaan aaaaaaaaaa a   81

<210> 204
<211> 362
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (97)..(97)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (146)..(146)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (219)..(219)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (243)..(243)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (265)..(265)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (293)..(293)
<223> n is a, c, g, or t

<400> 204
ggcatgtgcc tgtagtccta gttgctgagg taagaggatt gcttgagccc aagagttcaa   60

ggctgcaaca agctttgatt gcgccactgc actccancct tggcgacaga ctaaaacgct   120

gtctcaaaaa aaaaacaaaa acgacnaaaa aaaaacaaaa cagaaaaaat taacttaggc   180

aatgacagtc cctggcaaat gctgggaggg aggcaacant ggtcaaggaa ggtaaccctg   240

aancaggact tgtaaagcaa ataanattgg gaggccaagg tgggtggatc acnaggtcag   300

gagttcgaga ccaacctggc caacatagtg aaacccgtc tttctaaaaa tacaaaaaaa   360

tt   362

<210> 205
<211> 581
<212> DNA
<213> Homo sapiens

<400> 205
gacaaaagaa ccatttggat acataggtat ggtctgagct atgatatcaa ttggcttcct   60

agggtttatc gtgtgagcac accatatatt tacagtagga atagacgtag acacacgagc   120

atatttcacc tccgctacca taatcatcgc tatccccacc ggcgtcaaag tatttagctg   180

actcgccaca ctccacggaa gcaatatgaa atgatctgct gcagtgctct gagccctagg   240

attcatcttt cttttcaccg taggtggcct gactggcatt gtattagcaa actcatcact   300

agacatcgta ctacacgaca cgtactacgt tgtagctcac ttccactatg tcctatcaat   360

aggagctgta tttgccatca taggaggctt cattcactga tttcccctat tctcaggcta   420

caccctagac caaacctacg ccaaaatcca tttcactatc atattcatcg gcgtaaatct   480

aactttcttc ccacaacact ttctcggcct gtccggaatg ccccgacgtt actcggacta   540

ccccgatgca tacaccacat gaaacatcct atcatctgga g   581

<210> 206
<211> 595
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (13)..(13)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (17)..(17)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (121)..(121)
<223> n is a, c, g, or t

<400> 206
ttcaaattct tgntaanagt ctttgttctg aattttactt tgtctgttat tcctatagcc   60

tttccaattt tctttcgctt ggattttacg tgataagttt tttcccccat tttacttttta   120

ncaactctat attttttagt tgaggttggg tttcttgtaa acagcatata atttgggttt   180

tttaatccaa tctgaaaatt aatgtcctta attttgtgtt tataccattt acacataatg   240

tactcatata taaggtttaa ctgaaaccta ctatcttgct agttgtgctc tacttgaatt   300

ttttttttagt attctgtttt aattgaccaa catttgactg tatctctttg tgtaattctt   360

ttacaggttg ctgtaggcat gacaatatat acacttaact tttctcagta cactgagagt   420

tgaaattgta gtacttcgag gaaaacatag aaaacttgca atgatatcgg ttacattta   480

ccacctccat atgttgcaat tattaaatgt attagatctg cctacctcga aaacccatca   540

gtctttaac tttgctctca atggtgattc atattttaa aaaaacttga ggcaa   595

<210> 207
<211> 522
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (504)..(504)
<223> n is a, c, g, or t

<400> 207
tcgaccgggt ttggagcagt gccttgtttg ctgtgcagcg gatactctac aggtacattt   60

cctttttgga accaaaaggg agggatttga caatattgat ggtagatctt ttttctttag   120

caagaattaa ggattttggt gggtggggggg aggcttctgt ggggaccaag acaatgtact   180

gtcagtcagg atttaagtcg aactacctca tcccttgccc cagagaacag ttgatcgtgt   240

tttaaaccaa aaggtgcgga atggagagag ggaggcggtg cattgcagct tccgatagag   300

cttttattt ttggatatca ggaaccaatt ttgaagattt cttaagaaag tcatttacat   360

cagggacatg aagagcaaag taggtatttt tggtcagtac ttgaatttga taggctttat   420

gcaaacaact ctccctctgc tggagtctgg caagtttgct tttcactgga cgctaattca   480

agtgccatac aaaactaaaa taanagtttt acttataaca ca   522

<210> 208
<211> 585
<212> DNA
<213> Homo sapiens

<400> 208
cagaaatcgc aattgaagac cagatttgtc aaggtttgaa actgacattt gatactacct   60

tctcaccaaa cacaggaaag aaaagtggta aaatcaagtc ttcttacaag agggagtgta   120

taaaccttgg ttgtgatgtt gactttgatt ttgctggacc tgcaatccat ggttcagctg   180

tctttggtta tgagggctgg cttgctggct accagatgac ctttgacagt gccaaatcaa   240

agctgacaag gaataacttt gcagtgggct acaggactgg ggacttccag ctacacacta   300

atgtcaatga tgggacagaa tttggaggat caatttatca gaaagtttgt gaagatcttg   360

acacttcagt aaaccttgct tggacatcag gtaccaactg cactcgtttt ggcattgcag   420

ctaaatatca gttggatccc actgcttcca tttctgcaaa agtcaacaac tctagcttaa   480

ttggagtagg ctatactcag actctgaggc ctggtgtgaa gcttacactc tctgctctgg   540

tagatgggaa gagcattaat gctggaggcc acaaggttgg gctcg

<210> 209
<211> 624
<212> DNA
<213> Homo sapiens

<400> 209
gacacacgag catatttcac ctccgctacc ataatcatcg ctatccccac cggcgtcaaa   60

gtatttagct gactcgccac actccacgga agcaatatga aatgatctgc tgcagtgctc   120

tgagccctag gattcatctt tcttttcacc gtaggtggcc tgactggcat tgtattagca   180

aactcatcac tagacatcgt actacgac acgtactacg ttgtagccca cttccactat   240

gtcctatcaa taggagctgt atttgccatc ataggaggct tcattcactg atttcccta   300

ttctcaggct acaccctaga ccaaacctac gccaaaatcc atttcactat catattcatc   360

ggcgtaaatc taactttctt cccacaacac tttctcggcc tatccggaat gccccgacgt   420

tactcggact accccgatgc atacaccaca tgaaacatcc tatcatctgt aggctcattc   480

atttctctaa cagcagtaat attaataatt ttcatgattt gagaagcctt cgcttcgaag   540

cgaaaagtcc taatagtaga agaaccctcc ataaacctgg agtgactata tggatgcccc   600

ccaccctacc acacattcga agaa   624

<210> 210
<211> 338
<212> DNA
<213> Homo sapiens

<400> 210
acctgaggcc tcggtggggc cagtgcgacg ctggcttaag gagctggagg ggttcctaat   60

acacatttaa ttcagtttct cttccctaag aggctgccgg agttggggcc tcctccagca   120

gagaccctcg gacccctgca gggcctggac ttggggtgaa cagggcttca gtcagcgcaa   180

gtattccatt tgcatttggt aattttttcat gccacctatt tatgaatata taaatcttta   240

taccaaatct atttttaaa acatggaaaa gttgcctta tggaaacttg gcagagccag   300

agtgtacaca ttcctaaacc attaaacaga tttctata   338

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<210>   211
<211>   556
<212>   DNA
<213>   Homo sapiens

<400>   211
ggataatgat  acctctgacc  tttcttcctt  ttgggaagta  cttgagtgtg  cagctgcatg        60

aggcctcagc  aggagagaga  ttttaggtcc  aagaagctat  accagtagga  caaggcagga       120

aaatactaca  ctttcaggat  caagcccctc  tgactctcat  ttggaaactg  gatgtttgct       180

aagcacctgc  ttcttaagga  tgccgaggga  tttaatgata  ctcccagaaa  cctggagaga       240

ttaatggggc  ctatggagaa  gtgctctgaa  ctcagtgttg  ggacttgaat  aaaattaacc       300

attgtcatgt  tttcagaaca  actaagctgt  tttatatttc  atgtgcatga  aagccctaga       360

actaagttgt  gttatttcca  gaaatgaaat  agatcccaca  gttagatgat  gtggccatta       420

ggaagtacca  aatttataaa  aatcactgga  ggtctgtctg  agcagtacct  aataaaatat       480

agtatactga  aagtgaacag  atctttgtct  ctttctttgg  ctgcttgata  ctttatctgt       540
                                                                            556
gtctgccgga  cagtgc


<210>   212
<211>   305
<212>   DNA
<213>   Homo sapiens

<400>   212
caataaaagc  aggttaacct  caatgatagc  agttaaaatg  ttctatctta  tgtatttctt        60

ttaagtatta  ccattatggt  gctactgagc  gttttctttt  ggtaaaaaga  aaaatgccat       120

gggctgcagt  cttcttccat  cacttttccc  taccaggtcc  attaatatgc  ttataacact       180

agtgccagtt  atttttatttg  ataatgctta  tggtatttgt  atatttgttt  gcattccaat      240

tttgtttaat  aatgagtgtg  taaactgcat  acgttaaata  aatgtaaata  ctaatgtact       300
                                                                            305
gctgc


<210>   213
<211>   495
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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (55)..(55)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (335)..(335)
<223> n is a, c, g, or t

<400> 213
ttttattacc caagtttta cctctgtctg gtgatttgtt gttgttgttg ttgtngttgt   60

tgttgaagtt caggctgcat gtgggatagg tttgctcagg catacttctt aggaagtagt   120

cacttgcatg actgttttg ggataactct ttgagtattt ggagaggtct attgtaactt   180

ctgaaaggca ttgttttac gtatgaatgt tctaaaattc attctaaatg gtcatgaaaa   240

gaaaaggatt cacattttag aatggcaata gtccctgagg actattatgt cttttagatt   300

tcctgtgggt ttctaggaat gttagtgtaa cttanatttc cacctacctg atttctggat   360

gtgcctattg gaacttgctg agatctttt ttttccttaa catgttgtcc ccttgacccg   420

tacttcgaaa ctaaacatat tattttattt gcttacactt caggaggcaa ttggcagaca   480

                                                                         495
ccaggccaac agtct

<210> 214
<211> 507
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (437)..(437)
<223> n is a, c, g, or t

<400> 214
gctctgaccc cagttggaaa tgtatctgta ctttgtccgg cttccactca aggaccattt   60

atgacattgc ttggtgtcag ctgacagggg ctctggccac agcttgtggg gatgacgcga   120

```
tccgcgtgtt tcaggaggat cccaactcgg atccacagca gcccaccttc tccctgacag    180

cccacttgca tcaggcccat tcccaggatg tcaactgtgt ggcctggaac cccaaggagc    240

cagggctact ggcctcctgc agtgatgatg gggaggtggc cttctggaag tatcagcggc    300

ctgaaggcct ctgagctacc tcgactttgg acagagtaat gactccccag aaaacgtcat    360

ataagacttt accagcccct gagaggacca ggaggagcat ccttgacctt catttaactt    420

ggctcacttc tcttcanact tgggtagaag tgcagagcca caaaattgct ttccttcccc    480

                                                                     507
gcctttgaca tgaggccttc agtaaag
```

<210> 215
<211> 17
<212> DNA
<213> Homo sapiens

<400> 215
tgcaggatcc gtcgact   17

<210> 216
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (566)..(566)
<223> n is a, c, g, or t

<400> 216
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gagaaatata agattatgta tagatcaaat ctacctctat ttggtgtcct gaaagagatg    60

aggagaatgg dacaaacttg gaaagcttat ttcaagataa cattcctgag aacttcccca    120

atcttgctag agaggccaac attaaaattc agtaaatgct gaaaactcca gtaagatatt    180

tcttaagaaa attattccca agatatatac tcatcaaatt atctaaggtc aaatgaagga    240

aaaaattta taggcagcta gagagaaatg tcaggtcacc tacaaagaga atggcataag    300

acaaaaagta gaactcccag cagaaactct aaaagccaga agagattagg ggccaatatt    360

taacattctg aaagaaattc caacaaggaa tttcatatcc agccaaacta agcttcataa    420
```

ttgaaggaga aataagatat tttccagaca agcaaatgct gatgaaatcc atcaccacca   480

gacctgcctt ataagagctc ctgagggaag cactaaatat tgaaagggaa gaactttatg   540

aaccatttca aaaacacatt taagtncaca aagcag   576

<210> 217
<211> 341
<212> DNA
<213> Homo sapiens

<400> 217
ccttatttta caggtgaaaa accacgaatc agatagattt ttatttgccc aagtcacata   60

atattaagaa caggccaagt gtggtggctc atgtctgtaa tctgagcact ttgggaggct   120

aaggcgggtg gatttcctga gcctaggagt ttgagatcag cctgggcaac atggcgaaac   180

ctcatctcta caaaacatac aaaaattagt cagtgtggtg gtgagagcct gtagtcctgg   240

ctactcgtga ggctgaggtg ggagcatcac ctgagcctgg gaagtcgagg ctgcagtggc   300

aacagaatgg gtaacctgga catcagagtg agaccctgtc t   341

<210> 218
<211> 494
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (439)..(439)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (484)..(484)
<223> n is a, c, g, or t

<400> 218
ctcacacctg taattccatt actttggaag gctgagagag gaggatcagt ggagcccagg   60

agtttgagac cagcctgggc aatat[a]ggga gaccctgtct ctacaaaaat gaaatagcca   120

ggcgaggtgg catgtgcctg tggtcccagc tacttgggag actgaggtgg aaggctgcct   180

tgagcccagg agttccaggc tgcagtgagc catcattatg ccactgcact ccaacctggg   240

agacagagtg agagagaccc tgtctcaaac aaacaaaccc aaaataggcc aggcacagtg   300

actcatgcct gtaatcccag cactttggga ggctgaaata ggcggatcat ttgaggtcag   360

gagttcaaat tcaagaccag cccggccaac atggcaaaac cacatctcta ctacaaataa   420

aaaattagtt gggtgtggng gagcattcct gtaatcacag ctattcagga ggctgaggca   480

tganaaccgc ttca   494

<210> 219
<211> 379
<212> DNA
<213> Homo sapiens

<400> 219
taaatttaaa acattttaat tagctggcat gatggcatgc acctgtagtc ctacctactt   60

gggaggccaa ggcaggaaga ttgcttgagc ccaggagttt gagcttactg tgagctgtga   120

tcacaccact gcactccagc ctgggtgaca aggaagacc gtatttctaa aaaataaaaa   180

atacaaatac aactacaaac tagcactaga ccaacagtga ctatgtacca tgaactgagg   240

aatattatta attccaccat ttgcatctga ggttaacaat atgtcaatga cttaaataac   300

atcatatctc tgagagtaat ttctcctata tttccatgac aaatgttaga taattttcca   360

ttttttccat tcaacaaaa   379

<210> 220
<211> 421
<212> DNA
<213> Homo sapiens

<400> 220
ttttcaggca tgtcagagaa gggaggactc actagaatta gcaaacaaaa ccaccctgac   60

atcctccttc aggaacacgg ggagcagagg ccaaagcact aaggggaggg cgcataccg   120

agacgattgt atgaagaaaa tatggaggaa ctgttacatg ttcggtacta agtcattttc   180

aggggattga aagactattg ctggatttca tgatgctgac tggcgttagc tgattaaccc   240

atgtaaatag gcacttaaat agaagcagga aagggagaca aagactggct tctggacttc   300

ctccctgatc cccactctta ctcatcacct gcagtggcca gaattaggga ctcagaatca   360

aaccagtgta aggcagtgct ggctgccatt gcctggtcac attgaaattg gtggcttcat   420

t   421

<210>   221
<211>   598
<212>   DNA
<213>   Homo sapiens

<400>   221
gattaacttt cattttaagc tcttctctac taattctgtt cgtatgttta ttcattttgc   60

gttgatcata ttttgtacac caggcactct tctcagtttt atatgtgtgt taatttactc   120

ctttcaagag ccctatgata catgaattta tctccatttt atagatgagg aaattaagac   180

ctagagttac tgaacttgcc caaggttata cagctgatgg gtagggccag aactttgcct   240

cagagaatct gaatttccaa aaaataacct aaaagagaaa tttaagtact aattagtaag   300

caaagaaatg cacatttaag gaagacagtg cacatttaag gaagacagta accttttatc   360

tattagagaa aaacacacat tctgtcttta acacacacat aaatcttata ttggcaggga   420

ttttctttat tcagcaatta tttattggtt gtctgctttg tggtacacat aaatgctggg   480

gataaacact aataaaata tacttccttc tcttgaatat cttgcacttt aagtgggaag   540

gtaagtcaac agagtagagg tgatatatcc aagtgataga ctgtttcatt gccagtag   598

<210>   222
<211>   473
<212>   DNA
<213>   Homo sapiens

<400>   222
gttgcctgag agtgaccttt gcatctgcct gtccagccag catggaacca aagcggatca   60

gagagggcta ccttgtgaag aaggggagcg tgttcaatac gtggaaaccc atgtgggttg   120

tattgttaga agatggaatt gaattctata agaagaaaag tgacaacagc cccaaaggaa   180

tgatcccgct gaaagggagc actctgacta gcccttgtca agactttggc aaaaggatgt   240

ttgtgtttaa gatcactatg accaaacagc aggaccactt cttccaggca gccttcctgg   300

aggagagaga tgcctgggtt cgggatatca ataaggccat taaatgcatt gaaggaggcc   360

agaaatttgc caggaaatct accaggaggt ccattcgact gccagaaacc attgacttag   420

gtgccttata tttgtccatg aaagacactg aaaaaggaat aaaagaactg aat   473

<210> 223
<211> 392
<212> DNA
<213> Homo sapiens

<400> 223
tggtactgaa cctacgagta caccgactac ggcggactaa tcttcaactc ctacatactt   60

ccCCCcattat tcctagaacc aggcgacctg cgactccttg acgttgacaa tcgagtagta   120

ctcccgattg aagcccccat tcgtataata attacatcac aagacgtctt gcactcatga   180

gctgtcccca cattaggctt aaaaacagat gcaattcccg gacgtctaaa ccaaaccact   240

ttcaccgcta cacgaccggg ggtatactac ggtcaatgct ctgaaatctg tggagcaaac   300

cacagtttca tgcccatcgt cctagaatta attcccctaa aaatctttga aatagggccc   360

gtatttaccc tatagcaccc cctctacccc ct   392

<210> 224
<211> 618
<212> DNA
<213> Homo sapiens

<400> 224
tttttcttgt ttttgtgtgt ctaccttggc atatactaaa ggaaggtgtg tattcattta   60

ttacatgata tctctgggtt ataattattt acatatatga atttgaaaga aagattgaga   120

gggatatgtg tgacctttgt ttcattatga tcatttacat gactaaagat aaagatcata   180

tgtctgattt tcagtttaat ggcaagttac ttaaaataaa tgaaatatgt ttttattgtt   240

ttcgtgggtt tgatgctttg tgttttattt caagtaactt gagaatgcat tgtgtttggt   300

actgtttttt atgaatatca ttaaaaattt atttaaggag agagtaattt tgcaataata   360

tttttgattt atttgaaaat aaaattcaag ataaatgaaa taattgaaat tttctaaaga   420

aggaattgaa tatattttta catttgaatg aactaaggat taactgaacc atttatatat   480

agtactttca gaactgaatg tcttaaatga taaagctcta attggttaaa gtgactttct   540

```
ttcaagtcaa agaacccaga aactgaatag atgatctaac tactgccact gaggtttttgg      600

attagtgagt ataaattt                                                      618


<210> 225
<211> 17
<212> DNA
<213> Homo sapiens

<400> 225
tgcaggatcc gtcgact                                                        17


<210> 226
<211> 396
<212> DNA
<213> Homo sapiens

<400> 226
gacaatcaga gcagatcttg ggcttctgtg gctcatctca gccctttata actggcctga        60

gaagagggtt tatctacttg tgcaagtggc ccagaaatct cactcgtaca tgaggctttg       120

gaacatcctt gcaaaggtac gctgaaagca aattgctgtt ttcctggtgg ttctgcacgt       180

ttcctaactt ttatcatagt ttgattttca ttatttaaga aaaaataaaa aatccaaaga       240

ccataagatg gcattagatt ttttaccatt aaattattaa tgcctatttg gtgctcataa       300

agattaatca tgtcacgcat gtttccaatc tttcttttgc agtatattat tttctaaaaa       360

ttgttacatg caaatttaaa ccaagattta tcagta                                  396


<210> 227
<211> 535
<212> DNA
<213> Homo sapiens


<220>
<221> misc_feature
<222> (112)..(112)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (279)..(279)
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<223> n is a, c, g, or t

<400> 227
ttggaagaaa taaaccaagg cagaaaaatt ttaaatggcc aaaataaatt gtattgctaa   60

cttagatggc cacagatggg ggcaggggtg gagagaggag aaattgaaaa cnccacaaag   120

accccgcaat ggctagaact tgaaatctct ggatattgca acaatagcag cctccttaag   180

tcagcaaaaa gataaagatt gatccaatgt tctatattac agaacagagc agattgtcaa   240

tatagcaaat aaagttaccg ttgagtggac tgcgctgtnt aagctgcttg gttggcctta   300

agtgccgaca attaagagat gaaggcaatg agaactgaaa caaacattta agttcaagac   360

ccagtttact gacactggga ctattactat atctctttgg gcctcagttt acttatctgt   420

aacattaaga ggttggatta catgatgtct cacgattctt ttttttatt tagagatggg   480

gttttgctct gttgcccagg ctggagtgca gtggcatgat catagctcac agcag   535

<210> 228
<211> 392
<212> DNA
<213> Homo sapiens

<400> 228
ccagcctgtc actggcctgg ccaaggagga gagacaggcc agggattctg gtcctaactc   60

tactggccac actgtgtggc ctgagacccc cctttccctc ccaagcccct gcctccgcat   120

ctgcgtggtg aaggccattg gccctcatcg gtggatctgc gtttcctcgg gcctacactg   180

tctaggattg tgcggggctg gtgagagaac aagatctctt ccgtgttcaa ggcagacttc   240

ctgccccctg caccctgctc tctcccaggc cttgaggtca gtgtgagccc caagggcaag   300

aacacttctg gaagggagag tggatttggc tgggccatct ggatggaagg taaaaaaaag   360

aaaatccctt gaaaggagat tgagggaagt tt   392

<210> 229
<211> 419
<212> DNA
<213> Homo sapiens

<400> 229
aagagaaagg actcagtgtg tgatccggtt tcttttgct cgcccctgtt ttttgtagaa   60

```
tctcttcatg cttgacatac ctaccagtat tattcccgac gacacatata catatgagaa    120

tataccttat ttatttttgt gtaggtgtct gccttcacaa atgtcattgt ctactcctag    180

aagaaccaaa tacctcaatt tttgtttttg agtactgtac tatcctgtaa atatatctta    240

agcaggtttg ttttcagcac tgatggaaaa taccagtgtt gggttttttt ttagttgcca    300

acagttgtat gtttgctgat tatttatgac ctgaaataat atatttcttc ttctaagaag    360

acattttgtt acataaggat gactttttta tacaatggga ataaattatg gcatttttt    419
```

<210> 230
<211> 622
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (551)..(551)
<223> n is a, c, g, or t

<400> 230
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ctgagagtca ctgtgttttt agccaaatct aagggagaaa atgaatattg atagcagcat     60

gctgtagcca gctccttaaa ggaaggatgg tgcctggtac agagttagag ttagtgcttc    120

agtaaataat gaatgtgtgc taggtaggtt ctgctgggta ggctgcatgc attgaccaat    180

ttattcctcc ttgtttcaaa acaggattta agggcactta tatatatata ttttttagtt    240

tttttaatgt aaatgagaga ataaagatat atatatatgt ctatatatgt atatatgtat    300

atatatgtct atatgtctat atgtatatat gtctatatgt atatatgtgt gtgtgtatat    360

atatatatat atatataagt tttctgttgc tagcataaca aactaccaga aacttagcaa    420

ctgaaacaac atgaatttat cttacggttc tatagttcag aagtctaacg tgtcactggg    480

atgaaatcca ggtttcaaca ggactgggtt cccttctagc tcattcagct acctggctca    540

ttcaggttgt nggcagaata tacttccatg aaactgtagg gctgagaccc cgttccttcc    600

                                                                      622
tggctatcat ctgaaaactt tc
```

<210> 231
```

<211> 350
<212> DNA
<213> Homo sapiens

<400> 231
aggcgcagcc cagcctcgaa atgcagaacg acgccggcga gttcgtggac ctgtacgtgc      60

cgcggaaatg ctccgctagc aatcgcatca tcggtgccaa ggaccacgca tccatccaga     120

tgaacgtggc cgaggttgac aaggtcacag gcaggtttaa tggccagttt aaaacttatg     180

ctatctgcgg ggccattcgt aggatgggtg agtcagatga ttccattctc cgattggcca     240

aggccgatgg catcgtctca aagaactttt gactggagag aatcacagat gtggaatatt     300

tgtcataaat aaataatgaa aacctaaaaa aaaaaaaaa aaaaaaaaa                   350


<210> 232
<211> 493
<212> DNA
<213> Homo sapiens


<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (210)..(210)
<223> n is a, c, g, or t

<400> 232
tncactcaca cactcccaaa ccttaacaaa cacatacatg tgcagccaac ccaatgggcc      60

agcctctttt atgctcctca catgtttcct ttaactggaa tacccatgac agctccctac     120

atagttactt gtaaactcct cctctctgta taagttttcc tgaattttttt tgataaaatt    180

aagttgtgcc accccttttat gctctcttan aactttgttc tgttctcatg gctgttctgc    240

aacgaatctc attgtgttct cctactcaat tacattcctg cgtctcccac tagatggcag     300

actctttgag agtaggagat tcccttgtta tctctggatc cctggcactt gcagaaagcc     360

tgttacgtaa taattgctca acaattagtt tttaaataaa tgaattattt ttaaaacgcc     420

aaaattacaa tgattgtgca ttaagtgaaa gatgaccatc taaaaacata aagccatgct     480

tcatgacatt ggc

<210> 233
<211> 577
<212> DNA
<213> Homo sapiens

<400> 233

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gaccattcag ggaaatttta taaaaaatgc agatactgtc ttgagcagat cgaaatgccg      60

atgaggtgga tgcaatttcc ttttgtgcaa gcagtgcacg gtgccccccc ctcgggtgtc     120

cgtgctgtgc cttagcttcc ccaggtgccg ggactcacac ctgctagggg ctgggcaagg     180

ccccggctct gctttctctg aagggcttgt ccaagttcat tgccctgtta caggtggtca     240

agacgtccgg ccgccttgac ccaggctacc cttagccaat atcctctgcc cctgggtggt     300

tggtggctgg gcctcagggt gggcaacgtt aggggtttgg cgaaagcccg ccccatggga     360

ttgagggacg gggctgcact ccaaccgtct gcacctgctc ttcccccacc cctgtgggac     420

ctcatcttca cgtgccatgt gtgctgaagg cccagggccc agcaggggggc agtggcacct     480

gttgacggaa aagccgaggt gcttaccaat ggaccttctg gcccgccctc ccctgtactt     540

                                                                     577
gtcgggcatt cagggccccg acctgtgcct acccgca
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<210> 234
<211> 568
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (430)..(430)
<223> n is a, c, g, or t

<400> 234

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caactgtgtt cactagcaac ctcaaacaga caccatggtg cacctgactc ctgaggagaa      60

gtctgccgtt actgccctgt ggggcaaggt gaacgtggat gaagttggtg gtgaggccct     120

gggcaggctg ctggtggtct acccttggac ccagaggttc tttgagtcct ttggggatct     180

gtccactcct gatgctgtta tgggcaaccc taaggtgaag gctcatggca agaaagtgct     240
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cggtgccttt agtgatggcc tggctcacct ggacaacctc aagggcacct ttgccacact   300

gagtgagctg cactgtgaca agctgcacgt ggatcctgag aacttcaggc tcctgggcaa   360

cgtgctggtc tgtgtgctgg cccatcactt tggcaaagaa ttcaccccac cagtgcaggc   420

tgcctatcan aaagtggtgg ctggtgtggg ctaatgcctg gccccacaag tatcactaag   480

ctcgctttct tgctgtccaa tttctattaa aggttccttt gttccctaag tccaactact   540

                                                                      568
aaactggggg atattatgaa gggccttg

<210>   235
<211>   511
<212>   DNA
<213>   Homo sapiens

<220>
<221>   misc_feature
<222>   (261)..(261)
<223>   n is a, c, g, or t

<220>
<221>   misc_feature
<222>   (292)..(292)
<223>   n is a, c, g, or t

<220>
<221>   misc_feature
<222>   (321)..(321)
<223>   n is a, c, g, or t

<220>
<221>   misc_feature
<222>   (323)..(323)
<223>   n is a, c, g, or t

<220>
<221>   misc_feature
<222>   (328)..(328)
<223>   n is a, c, g, or t

<220>
<221>   misc_feature
<222>   (422)..(422)
<223>   n is a, c, g, or t

<400> 235
tttttaatt tcaccaaaat ttgttgacgt cccttgattt gctgataggg acaataatta 60

aatattttcc acttgttttt ataaaaactg taatggtgat ttgtttaaca gatgttgact 120

tagcaccttc tctctttttt ttttttttt tttgagttgg agtcttgctc tgtcacccag 180

ctggagtgca gtggcacgat ttcggctcac tgcaacctcc gcctcccagg ttcgggcgct 240

tctcctgcct cagcctccca natagttggg attacaggtg catgccgcca ncctagcta 300

atgtttttg tatcttggta nanatggngt ttccacttgt tgcccatgcc gctcttgaac 360

tccttggcct cccaaagtgt taggattaca ggcgtgagcc actgtgcctg gccccaattt 420

ancaccttac tgggtgctga ggctgtgagc catagtagaa tgcatgtgat ccagggcctt 480

gctgaattca tgggctaata gggagcctga c 511

<210> 236
<211> 592
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (504)..(504)
<223> n is a, c, g, or t

<400> 236
tgagcgttgg gctgtaggtc gctgtgctgt gtgatccccc agagccatgc ccgagatagt 60

ggatacctgt tcgttggcct ctccggcttc cgtctgccgg accaagcacc tgcacctgcg 120

ctgcagcgtc gactttactc gccggacgct gaccgggact gctgctctca cggtccagtc 180

tcaggaggac aatctgcgca gcctggtttt ggatacaaag gaccttacaa tagaaaaagt 240

agtgatcaat ggacaagaag tcaaatatgc tcttggagaa agacaaagtt acaagggatc 300

gccaatggaa atctctcttc ctatcgcttt gagcaaaaat caagaaattg ttatagaaat 360

ttcttttgag acctctccaa aatcttctgc tctccagtgg ctcactcctg aacagacttc 420

tgggaaggaa cacccatatc tctttagtca gtgccaggcc atccactgca gagcaatcct 480

tccttgtcag gacactcctt ctgngaaatt aacctatact gcagaggtgt ctgtccctaa 540

agaactggtg gcacttatga gtgctattcg tgatggagaa acacctgacc ca   592

<210> 237
<211> 572
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (568)..(568)
<223> n is a, c, g, or t

<400> 237
cttanaagag ttgctcattc acacccacgc ccttgcccaa ggctggccca ctcagagcga   60

aacttaactt ttgtctggat gggaagagaa gtaagtctac cccgaggttg ccatgttgaa   120

gagtgagagg tccaagtgat tctgtgcatt gaaaccaaga caccccaccc agaacacttc   180

ttccctccct cagcccaaac caaaggctgg ggttctcatc tccaagtggc tgttctccaa   240

ctttcccaag ccgcttgcat tccccagact ggactactgt ggcggttagg ttagatttga   300

agacggggcc caggctgggt atgaacgggt gcagccctct tctcctcttc ccccccacat   360

ctctcatgag agaggtagtg gcatttcctt ctcagggagc ttcaatggga aaggtctcga   420

aagcttcagg aggagcagaa taccaacgca gggggatggc tgtaacgatc tcaccgtctc   480

ctaacctcag tccctttttt gagagtgaat ggtggagggt gggaaaggga cccaaatttg   540

                                                                        572
tagatctctt tgtctggggg aggggaanga tg

<210> 238
<211> 482
<212> DNA
<213> Homo sapiens

<400> 238
ttaaaacagg cgcaggggta aaaatgagaa tgaatctgaa aaaagagagt tggtgtttaa   60

agaggatgga caagagtatg ctcaggtaat caaaatgttg ggaaatggac gattggaagc   120

attgtgtttt gatggtgtaa agaggttatg ccatatcaga gggaaattga gaaaaaaggt   180

ttggataaat acatcagaca ttatattggt tggtctacgg gactatcagg ataacaaagc   240

tgatgtaatt ttaaagtaca atgcagatga agctagaagc ctgaaggcat atggcgagct   300

tccagaacat gctaaaatca atgaaacaga cacatttggt cctggagatg atgatgaaat   360

ccagtttgac gatattggag atgatgatga agacattgat gatatctaaa ttgaaccaag   420

tgttttaca tgacaagttc tctgaggatg gttctacagt tgggattttg gccatcatca   480

                                                                         482
ac

<210> 239
<211> 545
<212> DNA
<213> Homo sapiens

<400> 239
tttgaaggca aagagggatt aatctgtgct ggcatcatgt aaggagactt gatagataag   60

aaaaagcttt acctaagttt tgaagaatag gttttttcata atggaaaatt taagggaaaa   120

atctccaaaa aagtgctact caagttttat ccatttgtat ttccaacaca gcctaggaca   180

gtacctgcac atagtaggtg attaataaaa atttagaaag cattaatact aaagaggaaa   240

aatagcaatg gcaagaaaac acatgtaggg aacacatgta gccaaaaaat aatatataat   300

cagagaaata ataggacttc tggaaaaaaa agatgagatc agattggtta ggatctttac   360

taacatgaca agagcatgaa ttttttttct gtagataata agtatgaaag aattttagct   420

taaaaattag cataatttgg atccacatat gcaaatcaat gaatgtaatt cataatataa   480

acagaactaa acacaaaaac cacgtgatta tctcaataga cacagaaaag gccttcaaaa   540

                                                                         545
aaatt

<210> 240
<211> 624
<212> DNA
<213> Homo sapiens

<400> 240
gacacacgag catatttcac ctccgctacc ataatcatcg ctatccccac cggcgtcaaa   60

gtatttagct gactcgccac actccacgga agcaatatga aatgatctgc tgcagtgctc   120

tgagccctag gattcatctt tcttttcacc gtaggtggcc tgactggcat tgtattagca   180

aactcatcac tagacatcgt actacacgac acgtactacg ttgtagccca cttccactat   240

gtcctatcaa taggagctgt atttgccatc ataggaggct tcattcactg atttcccta   300

ttctcaggct acaccctaga ccaaacctac gccaaaatcc atttcactat catattcatc   360

ggcgtaaatc taactttctt cccacaacac tttctcggcc tatccggaat gccccgacgt   420

tactcggact accccgatgc atacaccaca tgaaacatcc tatcatctgt aggctcattc   480

atttctctaa cagcagtaat attaataatt ttcatgattt gagaagcctt cgcttcgaag   540

cgaaaagtcc taatagtaga agaaccctcc ataaacctgg agtgactata tggatgcccc   600

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ccaccctacc acacattcga agaa

<210>   241
<211>   421
<212>   DNA
<213>   Homo sapiens

<400>   241
caagatgaca aagaaagaa ggaacaatgg tcgtgccaaa aagggccgcg gccacgtgca   60

gcctattcgc tgcactaact gtgcccgatg cgtgcccaag acaaggcca ttaagaaatt   120

cgtcattcga aacatagtgg aggccgcagc agtcagggac atttctgaag cgagcgtctt   180

cgatgcctat gtgcttccca agctgtatgt gaagctacat tactgtgtga gttgtgcaat   240

tcacagcaaa gtagtcagga atcgatctcg tgaagcccgc aaggaccgaa cacccccacc   300

ccgatttaga cctgcgggtg ctgccccacg tcccccacca aagcccatgt aaggagctga   360

gttcttaaag actgaagaca ggctattctc tggagaaaaa taaaatggaa attgtactta   420

                                                                          421
a

<210>   242
<211>   539
<212>   DNA
<213>   Homo sapiens

<400> 242

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tgcttggccc tctacctcct gccctcttcc tgttcatctc ccaaccactg cactcttgat      60

ttttatacca cacagaaggt aagaaaattc taggaaccct aaggatcaat cctctccatt     120

ttcactcaaa tgcctggggc ccagctctgc aatgactgac tccagggcct ctttcctcac     180

tgccagcata gaagtcaggg gagccagctg ggccctgcgg tcaggaaggt tctcattttt     240

ggagcattcc ctgagcccag atcataggag cagctgtccc tggtgggaca caggagtcat     300

gactcctacc ctccaccctc cacacccacc aggcatttag cagtctgtcc tatgcaagac     360

agatgaattc tcagccagga tacctcaagg caggcaaagg tgagtggagg gaaaattcac     420

aaacattcag ggtgtgtggt gctggcatca ccatggccaa atccaagagg tcttcctgga     480

agagggccca aactggaacc aaaagaatgc tgtcagcagt tggaatagag ctgtgaatt      539
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<210> 243
<211> 397
<212> DNA
<213> Homo sapiens

<400> 243

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ctttccaaga ggaatcctcg gcagataaac tggactgtcc tctacagaag gaagcacaaa      60

aagggacagt cggaagaaat tcaaaagaaa agaacccgcc gagcagtcaa attccagagg     120

gccattactg gtgcatctct tgctgatata atggccaaga ggaatcagaa acctgaagtt     180

agaaaggctc aacgagaaca agctatcagg gctgctaagg aagcaaaaaa ggctaagcaa     240

gcatctaaaa agactgcaat ggctgctgct aaggcaccta caaaggcagc acctaagcaa     300

aagattgtga agcctgtgaa agtttcagct ccccgagttg gtggaaaacg ctaaactggc     360

agattagatt tttaaataaa gattggatta taactct                              397
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<210> 244
<211> 542
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (535)..(535)

<223> n is a, c, g, or t

<400> 244
ctttgataga gaagaaaatt ctcctaggat acaagagcct caacatttta aagattttct   60

gcatctcaaa agcgtaggct ccttgctggg caaggtgagc ctctgtgagt cctcatagga   120

ccgagcaaat ctgattcacc ccagaaaatc caatatcgaa gctgagcttt ggcctgagcg   180

ggttccattt cctccccaga tcctatttag gaagtgtctc ctgacaacct ccaaaaggtg   240

ctaacatgca acgttctgaa gggttattgc tcaaaaacaa gattttcctt gtggtcaaga   300

ctctgcgagc ctcgaacacg atgaatccgc tcgaatgggc ttgggctttg cccgggtggc   360

gcacgctcac acgctggaag cacagctttg acgatctcca cacacgcaca ggcacacacg   420

ccacagatga tgccggctca ttctcagggg gtgtctaagt tctgctttaa atatttaccc   480

cctaattgta caaacaatag gggcatgagc ctggtactcg ataaatgggg acttncttaa   540

aa   542

<210> 245
<211> 649
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (615)..(615)
<223> n is a, c, g, or t

<400> 245
ctacagcctg ggcagcgcgc tgcgccccag caccagccgc agcctctacg cctcgtcccc   60

gggcggcgtg tatgccacgc gctcctctgc cgtgcgcctg cggagcagcg tgcccggggt   120

gcggctcctg caggactcgg tggacttctc gctggccgac gccatcaaca ccgagttcaa   180

gaacacccgc accaacgaga aggtggagct gcaggagctg aatgaccgct cgccaacta   240

catcgacaag gtgcgcttcc tggagcagca gaataagatc ctgctggccg agctcgagca   300

gctcaagggc caaggcaagt cgcgcctggg ggacctctac gaggaggaga tgcgggagct   360

gcgccggcag gtggaccagc taaccaacga caaagcccgc gtcgaggtgg agcgcgacaa   420

cctggccgag gacatcatgc gcctccggga gaaattgcag gaggagatgc ttcagagaga   480

ggaagccgaa aacaccctgc aatctttcag acaggaaatc caggagctgc aggctcagat   540

tcaggaacag catgtccaaa tcgatgtgga tgtttccaag cctgacctca cggctgcctt   600

gcgtgacgta cgtancaata tgaaagtgtg gctgccaaaa accttgcag   649

<210> 246
<211> 600
<212> DNA
<213> Homo sapiens

<400> 246
gagatgtctc gctccgtggc cttagctgtg ctcgcgctac tctctctttc tggcctggag   60

gctatccagc gtactccaaa gattcaggtt tactcacgtc atccagcaga gaatggaaag   120

tcaaatttcc tgaattgcta tgtgtctggg tttcatccat ccgacattga agttgactta   180

ctgaagaatg gagagagaat tgaaaaagtg gagcattcag acttgtcttt cagcaaggac   240

tggtctttct atctcttgta ctacactgaa ttcaccccca ctgaaaaaga tgagtatgcc   300

tgccgtgtga accatgtgac tttgtcacag cccaagatag ttaagtggga tcgagacatg   360

taagcagcat catggaggtt tgaagatgcc gcatttggat tggatgaatt ccaaattctg   420

cttgcttgct ttttaatatt gatatgctta tacacttaca ctttatgcac aaaatgtagg   480

gttataataa tgttaacatg gacatgatct tctttataat tctactttga gtgctgtctc   540

catgtttgat gtatctgagc agggtgctcc acaggtagct ctaggagggc tggcaactta   600

<210> 247
<211> 331
<212> DNA
<213> Homo sapiens

<400> 247
cgaatgtgca ggtttgttac ataggtatat atatgccatg atggaaatat ttattttttt   60

aagcgtaatt ttgccaaata ataaaaacag aaggaaattg agattagagg gaggtgttta   120

aagagaggtt atagagtaga agatttgatg ctggagaggt taaggtgcaa taagaattta   180

gggagaaatg ttgttcatta ttggagggta aatgatgtgg tgcctgaggt ctgtacgtta   240

cctcttaaca atttctgtcc ttcagatgga aactctttaa cttctcgtaa aagtcatata   300

cctatataat aaagctactg atttccaaaa a   331

<210> 248
<211> 41
<212> DNA
<213> Homo sapiens

<400> 248
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a   41

<210> 249
<211> 425
<212> DNA
<213> Homo sapiens

<400> 249
caaaaaaacg aagaaaagtg acgacagtct gagggactta tgggagatca tcaagtgaac   60

cactatatgt gtaatgtaag tcttggaatg agaagagaga aggagaagga ggagagagct   120

tatttgtaga aataatggct gaaaacatcc caaactttcc ttttttgag gaaagaaata   180

ggcatacaag ttcaagaaac tcaaggaact ccagagagga caattctaaa gacacccct   240

ctaacataca ttataatcaa attgtcaaaa gtaaaataca aagagaatct tttaaattga   300

caagagaaaa gcagctggtc acgttcaagg gagttctata agaatttcag cagatttctc   360

agcagaaacc ttgcaggcca acaggcagtg ggatgataca ttcaaagtgc aaaaaaaaaa   420

aaaaa   425

<210> 250
<211> 633
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (16)..(16)
<223> n is a, c, g, or t

<220>
<221> misc_feature

<222> (56)..(56)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (308)..(308)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (314)..(314)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (600)..(600)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (604)..(604)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (606)..(606)
<223> n is a, c, g, or t

<400> 250
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ataaaacaaa ctcaaattgc ttataaagtt tcttcccatg ttcccatttg atgaaaagtc   120

ttacatcaca tataactggg aagcaggggt ccctcctcaa ttttcagaca ttttgaaagg   180

atgacagttc tgtttgttag atgagtaaac ctctatattc ataagttcta aaatccttca   240

ttatgaggga ttcaaagtat ttataaaaac actgccctct aaaaatttcc tcagatctga   300

agtatggnct tggncctgaa tatacagtgt tatcctatgt ttaaagggt gatccagaca   360

tgagacgcaa ctagttggtg cataagaagg ccccacttgg ctatttcata tctacctaca   420

attgaccaaa aaaaattttt taggccagca attattattt agcttcgctc tttctagtgc   480

aagaaactgc aggctggatc agtagttcaa cagctaaaca gtcataaaat agtcattggc   540

atgttaaatt tctttcaatg cttcaaagat aaattccaat tctatttact tattcattgn   600

gacngnatta ctaaacaggt aaggatggga ata   633

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<210>  251
<211>  251
<212>  DNA
<213>  Homo sapiens

<400>  251
ctttgggagg  ccgaggcggg  cggatcactt  gaggtcaggg  gttcgagacc  agtctggcca      60

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cctgtaatcc  cagctactcg  ggaggctgag  acaggagaat  cactttgaac  ctgggaggcg     180

gaggttgcag  tgagccaaga  tcgtgccact  gcacttcagc  ctgggcaaca  gagcaagatt     240
                                                                          251
ccgtccatct  c


<210>  252
<211>  593
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (157)..(157)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (569)..(569)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (588)..(588)
<223>  n is a, c, g, or t

<400>  252
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ctcttccagg  ttatacgtgt  aaatagctgt  ttttatgcaa  gattagttag  atactgctct     120

ttacaggatg  agtggtgttg  tctttggctg  gggggggnctt  aaatgtgttt  ctaatgtgtg     180

tgtcaaataa  ttacctgtta  aacagactgc  caatctggct  gaagccaatg  cttctgaaga     240

agataaaatt  aaagcaatga  tgtcgcaatc  tggccatgaa  tacgacccaa  tcaattacat     300
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gaagaaacct ctaggtccac cacctccatc ttacacgtgt ttccgttgtg gtaaacctgg   360

acattatatt aagaattgcc caacaaatgg ggataaaaac tttgaatctg gtcctaggat   420

taaaaagagc actggaattc ccagaagttt catgatggaa gtgaaagatc ctaatatgaa   480

aggtgcaatg cttaccaaca ctggaaaata tgcaatccaa ctatagatgc agaagcatat   540

gcaattggga agaaagagaa acctccttnt taccagagag ccatcttntt tct   593

<210> 253
<211> 211
<212> DNA
<213> Homo sapiens

<400> 253
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caataattaa aaacaactca actcactgtc ctcctgcctt gaatttgatc attgcgcttt   120

gcatgtatgt atcacaatac cacatgtacc ccataaatat gtacaaagat tatgtgtcaa   180

taaaaaacaa aaattaaaat cccaattttt a   211

<210> 254
<211> 247
<212> DNA
<213> Homo sapiens

<400> 254
gttgctagta gcggcaggaa gatgtcaggc tcactttcct ctgattcccg aaatggggggg   60

aacctctaac cataaaggaa tggtagaaca gtccattcct cggatcagag aaaaatgcag   120

acatggtgtc acctggattt ttttctgccc atgaatgttg ccagtcagta cctgtcctcc   180

ttgtttctct atttttggtt atgaatgttg gggttaccac ctgcatttag gggaaaattg   240

tgttctg   247

<210> 255
<211> 244
<212> DNA
<213> Homo sapiens

<400> 255

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gtccccggga atcgcggccg cgtcgacggt ttattttcag tgcttgaaga tacattcaca      60

aatacttggt ttgggaagac accgtttaat tttaagttaa cttgcatgtt gtaaatgcgt     120

tttatgttta aataaagagg aaaatttttt gaaaaaaaaa aaaaaaaaaa aaaaaaaaa      180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaat     240

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tttt
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<210> 256
<211> 433
<212> DNA
<213> Homo sapiens

<400> 256
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ctaattcggg agtgatgatt aaaggacatt agagggagca ctttgacatc tgatcctttg     120

aactgacgtc tgtgcaggct gcactccata gagctcactt ggccaaactg atttccttaa     180

ataaagtgct gtgatttcca atgtaggaaa tattacatta gagcctattg aaatgattag     240

gaattgagga gcttttcttt aggtgggaat gtggtgtatg ctgtatactc acaaaagtga     300

gatcattaat attgcatgta ctactttgaa tatcagggac cacagagaaa tagcatgaga     360

aacgccttcc tgcagtcatg cacttaaaat gaatatgaac aaaaatgtgg aactctgctg     420

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gcttagcgtt aagttttttaa cgtaattttta atagcttaag attttaagag aaaatatgaa     180

gacttagaag agtagcatga ggaaggaaaa gataaaaggt ttctaaaaca tgacggaggt     240

tgagatgaag cttcttcatg gagtaaaaaa tgtatttaaa agaaaattga gagaaaggac     300
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atttgtttag ttaataacag ataaaaagga aagattcaag cctattggat gagaatttgt   120

acattatttt agagctaata ataatggttt tcagtttagt gaggatttaa aaaatgtttt   180

tgaatcaaac ttttttttctt tataatcctt tttaactaac tcaggaaata aggtattatg   240

aaatccacac actgttacct ccttaaagta tgaggatact tcccactgtt tggtccacta   300

gtggctgatt attttgtttg tggattattt gtaatttttct ttttaattct tccttaaaga   360

gcatggcatt tggagtcaca gacctatatt tgaatcctgt catttactag cgttttgacc   420

ttgaacaatt atgctcagag tctcagtttt ttcttgtaaa gtgatgatga tactacttaa   480

ctcacagggt tgtagtgaag atcaaatgag atcatgtctg tanaacaccc tgcccggcac   540

tcaataagta ttaataggaa cccatatacc tc   572

<210>   259
<211>   477
<212>   DNA
<213>   Homo sapiens

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<222>   (299)..(299)
<223>   n is a, c, g, or t

<400>   259

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tgtttttatt ttttaaaagg tataaacacc aaaaaaaaaa ttaacattgt atgaagatgg      60

aaaataagaa gatgcacttt ctgtaacttt gtctaaggat ttaaattact aacttatgaa     120

ctccaatttg aattgaactt aactatcggc tttcttactg gtaaaattat atggtttatt     180

ttaaatgcgt acatattgac caatggcctc tgaaaaagca cattttagat actgaaattg     240

aaggaaagaa aatgcatctt caaacatttt ttggaatctc accacatata ctttgttana     300

tttgtgtatt gtagggtgtt tgttttgtat ttttgtattg tatatgaact ttttttaaat     360

gtgacagtta aacacatctt taaaagcata gtcacagaca aaagcataca gtataaaaat     420

ttccttgaaa actcctacaa tattatattt ggaggcagct tcagactgtt ttattgg       477
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ctgagtgtaa ggagagctgg aaaaaatagt ttctagcagg tcagccacct cccagtgagg     120

gctgcatacc atagaagggg agaatgaatt ttgggaaaac aggtaattat ctctgtcaca     180

gaaggggatg aaaagtatgg tagttacnca agttanacat ctgtatggaa aataccactt     240

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ggttctacaa atgngg
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ctgccaccac gccttgcaaa ttttgtgtt tttagtggag atggggtttt gccatgttgg      120

ccaggctggt ctcggactcc tgacctcagg tgatccgccc gcctcagcct cccagagggc      180

tgggattaca ggcgtgagcc actgtgcctg gccccaagtt ttgcatcttt taatgccctc      240

tgaacaaata catagagaaa actctcagaa caattaaaac ctgcagagca acagtgtcct      300

ccatgtctta ggtttcaagt ttgcctctaa aattctaatc catattttc tacttctcag      360

ataatttatg tgtgtgtact cttcctagac gtacaagaga ctttttaatg ctaaatattt      420

gtcagtgctt aacaaaaact caatttcaca ttactcatat tgttttttgtt ttaattgaat      480

gtgaattaaa tttttattag ttatttgatt tggaatgtta tgtatgccat taacactatt      540

aggggaatct ctagcatttc tgtatttta aagaatttga ttcttttgta nattctgcct      600

                                                                       627
gtgtggcatt ttaaacatgt gtgacat


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tatggggcct ccctccggaa aatggtgaag aaaattgaaa tcagccagca cgccaagtac      120

acttgctctt tctgtggcaa aaccaagatg aagagacgag ctgtggggat ctggcactgt      180

ggttcctgca tgaagacagt ggctggcggt gcctggacgt acaataccac ttccgctgtc      240

acggtaaagt ccgccatcag aagactgaag gagttgaaag accagtagac gctcctctac      300
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- 167 of 408 -

tctttgagac atcactggcc tataataaat gggttaattt atgta

<210> 263
<211> 252
<212> DNA
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aagctgtagc tgtactacaa gcccaccaag ctaaagaggc tgcccagaaa gcagttaaca   120

gtgccaccgg tgttccaact gtttaaaatt gatcagggac catgaaaaga aacttgtgct   180

tcaccgaaga aaaatatcta aacatcgaaa aacttaaata ttatggaaaa aaaacattgc   240

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agaagaccct atggagcttt aatttattaa tgcaaacggt acctaacaaa cccacaggtc   120

ctaaactacc aaacctgcat taaaaatttc ggttggggcg acctcggagc agaacccaac   180

ctccgagcag tacatgctaa gacttcacca gtcaaagcga actactatac tcaattgatc   240

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<210> 265
<211> 370
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ggcggacttg ggggggggttg catacaaaga taacatatat atccaacttt ctgaaatgaa   120

atgtttttag attacttttt caactgtaaa taatgtacat ttaatgtcac aagaaaaaaa   180

tgtcttctgc aaattttcta gtataacaga aatttttgta gatgaaaaaa atcattatgt   240

ttagaggtct aatgctatgt tttcatatta cagagtgaat ttgtatttaa acaaaaattt   300

aaattttgga atcctctaaa catttttgta tctttaattg gtttattatt aaataaatca   360

tataaaaatt   370

<210> 266
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<400> 266
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tcccagtggc aattccaaac ctgggtccct ccctgagctc tctgccttct gctctgtctt   120

taatgctacc aatgggtatt ggggatcgag gggtgatgtg tgggttacct gaaagaaact   180

acaccctacc tccaccacct taccctcacc tggagagcag ttatttcaga accattctac   240

ctggcatttt atcttatttа gctgacagac cacctccaca gtacatccac cctaactcta   300

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tcccagtggc aattccaaac ctgggtccct ccctgagctc tctgccttct gctctgtctt   120

taatgctacc aatgggtatt ggggatcgag gggtgatgtg tgggttacct gaaagaaact   180

acaccctacc tccaccacct taccctcacc tggagagcag ttatttcana accattctac   240

ctggcatttt atcttattta gctgacagac cacctccaca gtacatccac cctaactcta   300

taaatgttga tggtaataca gcattatcta tcaccaataa cccttcagca ctagatccct   360

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gctaaacaga atactgctat tttgagagag tcaagactct ttcttaaggg ccaagaaagc   120

cacntgnncc ctnggnctaa tctggctgag tagtcagtta taaaagccnt aatngcttnn   180

tntttggnnt cnttttttnnc nggggncggn cttggggggg gttgcntcca aagatancat   240

ntntttccaa ctttntnaan nnaanngttt taaaatccct tttccnccng aaaananngc   300

cctttaagng ccncaaaaaa aaanngtntt ctgcannttt tctantatna caaanntttt   360

ngtagaanaa aaattttttt ttagnggcta ccctttnttt nttanncann ggagtttntt   420

tttacaaaaa aaaaanattg ggncccctcc acaaccttgg gtctntaatn ggggggtttt   480

taaataaanc ntntntaaat cccccnnnnn nnnncnnnnn nnnccnnnnn nnnnnnnnnn   540

cccnnnnaaa aaatttttnc tcccccnccc tttttcttcc tgccggcccc aatttaagcc   600

cnggcgcttg gggcaaatcc ccctttagng gggggtttta naaaaaccng gggcggggnt   660

ttaaaaccnc ggggnnnggg gaa   683

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cggtacccta accgtgcaaa ggtagcataa tcacttgttc cttaattagg gacctgtntg   120

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aacatcatgt cgagaatcat tggaagatat acagagttcg tatttcagct ttgtttatcc       120

ttcctgttaa gagcctctga gttttttagtt ttaaaaggat gaaaagctta tgcaacatgc       180

tcagcaggag cttcatcaac gatatatgtc agatctaaag gtatattttc attctgtaat       240

tatgttacat aaaagcaatg taaatcagaa taaatatgtt agaccagaat aaaattaatt       300

atattctggt cttcaaagga cacacagaac agatatcagc agaatcactt aatacttcat       360

agaacaaaaa tcactcaaaa cctgtttata accaaagaat tcatgaaaaa gaaagccttt       420

gccatttgtc ttagaaagtt attttttaaa aaaaaatcat acttactatt agtatctatg       480

gaagtatatg taacaatttt tatgtaaagg tcatctttct gtgatagtga aaaaatatgt       540

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acagcaagta gcagtgtcac gccttagcgc ttccagctcc agctcagatt ccagctcctc   120

ctcttcctcg tcgtcgtctt cagacaccag tgattcagac tcaggctaag gggtcaggcc   180

agatggggca ggaaggctnc gcaggaccgg acccctagac caccctgccc cacctgcccc   240

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<223>  n is a, c, g, or t


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<221>  misc_feature
<222>  (118)..(118)
<223>  n is a, c, g, or t


<220>
<221>  misc_feature
<222>  (121)..(121)
<223>  n is a, c, g, or t


<220>
<221>  misc_feature
<222>  (169)..(169)
<223>  n is a, c, g, or t


<220>
<221>  misc_feature
<222>  (211)..(211)
<223>  n is a, c, g, or t


<220>
<221>  misc_feature
<222>  (285)..(285)
<223>  n is a, c, g, or t


<220>
<221>  misc_feature
<222>  (290)..(290)
<223>  n is a, c, g, or t


<220>
<221>  misc_feature
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<222>    (341)..(341)
<223>    n is a, c, g, or t

<220>
<221>    misc_feature
<222>    (474)..(474)
<223>    n is a, c, g, or t

<220>
<221>    misc_feature
<222>    (495)..(495)
<223>    n is a, c, g, or t

<220>
<221>    misc_feature
<222>    (504)..(504)
<223>    n is a, c, g, or t

<220>
<221>    misc_feature
<222>    (515)..(515)
<223>    n is a, c, g, or t

<220>
<221>    misc_feature
<222>    (579)..(579)
<223>    n is a, c, g, or t

<220>
<221>    misc_feature
<222>    (607)..(607)
<223>    n is a, c, g, or t

<400>    272
gnancntttc ctntcgnaaa ncgcgccttg tgttggtacc cgggaattcg cggccgcgtc      60

gacaaaaaaa aaaaaaaaaa aaaaaaaaaa aantntagac tcgancaagc ttatgcangc     120

ntgcggccgc aattcgagct cggccgactt ggccaattcg ccctatagng agtcgtatta     180

caattcactg gccgtcgttt tacaacgtcg ngactgggaa acccctggcg ttacccaact     240

taatcgcctt gcagcacatc cccctttcgc cagctggcgt aatancgaan aggcccgcac     300

cgatcgccct tcccaacagt tgcgcagcct gaatggcgaa nggaaattgt aagcgttaat     360

attttgttaa aattcgcgtt aaattttttgt taaatcagct catttttttaa ccaataggcc     420

gaaatcggca aaatcccttta taaatcaaaa gaatagaccg agatagggtt gagngttgtt     480
```

```
ccagtttgga  acaanagtcc  actnttaaag  aacgnggact  ccaacgtcaa  agggcgaaaa    540

accgtctatc  agggcgatgg  cccactacgt  gaaccatcnc  cctaatcaag  ttttttgggg    600

tcgaggngcc  gtaaagcact  aaatcggaac  cctaaaggga  gcccccgatt  taaagcttga    660

cggggaaagc  ccggcgaacg  tggcgaaa                                          688
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<210> 273
<211> 271
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (239)..(239)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (249)..(249)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (255)..(255)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (267)..(267)
<223> n is a, c, g, or t

<400> 273
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cacctgcagt  ccaagtacat  cggcacgggc  cacgccgaca  ccaccaagtg  ggagtggctg    60

gtgaaccaac  accgcgactc  gtactgctcc  tacatgggcc  acttcgacct  tctcaactac    120

ttcgccattg  cggagaatga  gagcaaagcg  cgagtccgct  tcaacttgat  ggaaaagatg    180

cttcagcctt  gtggaccgcc  agccgacaag  cccgaggaaa  actgaaactt  tgcttaacna    240

ccgaatggng  ggganctttt  ccaacgnttt  t                                    271
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<210> 274
<211> 213
<212> DNA
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<213> Homo sapiens

<220>
<221> misc_feature
<222> (15)..(15)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (21)..(21)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (29)..(29)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (35)..(35)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (43)..(43)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (51)..(51)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (67)..(67)
<223> n is a, c, g, or t

<400> 274
ttggtttcat actgntgggg nttgaatgnt ccctncaaca ctnatgttga nacttaatcc   60

ctaatgnggc aatactgaaa ggtggggcct ttgagatgtg attggatcgt aaggctgtgc   120

cttcattcat gggttaatgg attaatgggt tatcacagga atgggactgg tggctttata   180

                                                                      213
agaagaggaa aagagaactg agcttgcatg ccc

<210> 275
<211> 545

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (63)..(63)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (198)..(198)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (346)..(346)
<223> n is a, c, g, or t

<400> 275

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gtggaagnga catcgtcttt aaaccctgcg tggcaatccc tgacgcaccg ccgtgatgcc    60

canggaagac agggcgacct ggaagtccaa ctacttcctt aagatcatcc aactattgga   120

tgattatccg aaatgtttca ttgtgggagc agacaatgtg ggctccaagc agatgcagca   180

gatccgcatg tcccttcncg ggaaggctgt ggtgctgatg ggcaagaaca ccatgatgcg   240

caaggccatc cgagggcacc tggaaaacaa cccagctctg gagaaactgc tgcctcatat   300

ccggggggaat gtgggctttg tgttcaccaa ggaggacctc actganatca gggacatgtt   360

gctggccaat aaggtgccag ctgctgcccg tgctggtgcc attgccccat gtgaagtcac   420

tgtgccagcc cagaacactg gtctcgggcc cgataagacc tcctttttcc aggctttagg   480

tatcaccact aaaatctcca ggggcaccat tgaaatcctg agtgatgtgc actgatcaag   540

actgg                                                             545
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<210> 276
<211> 260
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (35)..(35)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (40)..(40)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (252)..(252)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (257)..(257)
<223> n is a, c, g, or t

<400> 276
ggaaagggcc attttattgc ctaaaaccac ctggnttttn aggtaacagt tccaacatgt   60

ccttttttga atagctgttc taattattat atattcagct gattaatagg agtacttgat   120

aggtggactg tgtcaggtag cctcaggcaa tcctacttca acaagctgtc agggagccat   180

gccatgcttc tttatgacat aggtgaattt gataggctca ctagcagaac atgggatcac   240

                                                                     260
aaggtggaac cnttccnttt

<210> 277
<211> 603
<212> DNA
<213> Homo sapiens

<400> 277
gaccccttcc ttacaccttta tacaaaaaaa ctgaaactgg accccttcct tacaccttat   60

acaaaaatta actcaatttt attatgttgt attaaattaa gttgggttta attaagatgg   120

attaaagact taattataag acctaaaacc ataaaaaccc tagaagaaaa cctaggccat   180

accattcagg acacgggtat gggcaaagac ttcataacta aaacaccaaa agcaatggca   240

acgaagtcca aatagacaaa ttggacctga ttaaactaaa gagcttcagc acagcagaag   300

```
agactatcgt cagagtgaac aggcaaccca cagaatggaa gaaaattctt gcaatctatc      360

catctgacaa ggggctaata tccaaaatct acaaagaact taaacaaatt tacaaggaaa      420

aacacaaaca accccatcaa aaagtgggct aaggatgtga acagacactt ctcaaaagaa      480

aacatttatg cagccaacaa acatgaaaaa aagttcatca tcactgctca ttagagacat      540

gcaaatcaaa accacaatga gatcccatcc cacaccagtt agaatggcaa tcattaaaaa      600

                                                                       603
tgt


<210>  278
<211>  268
<212>  DNA
<213>  Homo sapiens

<400>  278
tttatgtgtt tttgcttggg gggcgctggg cctagcccag agtagtgctt gctccccctg       60

ccttgtccca ccagggaggc agcagactca ggccctccat ggtcctcttt gtcattttgt      120

tgacatgcat cctcctttt gtcatcttgt tgggggggagg ggattaacca aaggccaccc      180

tgactttgtt tttgtggaca cacaataaaa gccccgttta tttgtaaaaa aaaaaaaaaa      240

                                                                       268
aaaaaaaaaa aaaaaaaaaa aaaaaaaa


<210>  279
<211>  569
<212>  DNA
<213>  Homo sapiens

<400>  279
ctttagccag cctgatcaga aaaaaacaaa agaagaggaa agacgtagat taccaacatc       60

aagaatgtga gttatgatat cactacagac tctccaggta ttaaaagcat aattagagaa      120

tgatatgagc agctatatgc aaataagttc aacattggac aaatggacaa atttcttgaa      180

agataaatta tgaaatttca ttctgaaaga actacatgac cttaattgtc ttacatctat      240

taaataagtg gaaattgtag tttagaaact ttcccacaaa gaaaactcta ggcccagatg      300

gcatcaaaat aatattcaga tgaatgaaat ggagaaagga tagccttttc aacaaatggt      360

ggtggaacaa ttggatttcc atatgcaaaa aaatagagat ggacgcagag gtgtgtgctt      420
```

```
aggaggctga ggtgagagga ttgtttgagg ccagcctggg caacatagca agaccccatt     480

tcaaaaacaa aaataaagaa cttgtagcct taccttgtgc catattatga aaatgtatca     540

                                                                        569
taggcttaaa tgtgaaacgt aaaacaaaa
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<210> 280
<211> 492
<212> DNA
<213> Homo sapiens

<400> 280
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cgcagggggct tctgctgagg gggcaggcgg agcttgagga aaccgcagat aagttttttt     60

ctctttgaaa gatagagatt aatacaacta cttaaaaaat atagtcaata ggttactaag     120

atattgctta gcgttaagtt tttaacgtaa ttttaatagc ttaagatttt aagagaaaat     180

atgaagactt agaagagtag catgaggaag gaaaagataa aaggtttcta aaacatgacg     240

gaggttgaga tgaagcttct tcatggagta aaaaatgtat ttaaaagaaa attgagagaa     300

aggactacag agccccgaat taatactaat agaagggcaa tgcttttaga ttaaaatgaa     360

ggtgacttaa acagcttaaa gtttagttta aaagttgtag gtgattaaaa taatttgaag     420

gcgatctttt aaaaagagat taaaccgaag gtgattaaaa gaccttgaaa tccatgacgc     480

                                                                        492
agggagaatt gc
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<210> 281
<211> 355
<212> DNA
<213> Homo sapiens

<400> 281
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cgaaaagcaa atataacttg ccactaacca agatcacctc tgcaaaaaga aatgaaaaca     60

acttttggca ggattctgtt tcatctgaca gaattcagaa gcaggaaaaa aagccttta      120

aaaataccga gaacattaaa aattcgcatt tgaagaaatc agcatttcta actgaagtga     180

gccaaaagga aaattatgct ggggcaaagt ttagtgatcc accttctcct agtgttcttc     240

caaagcctcc tagtcactgg atgggaagca ctgttgaaaa ttccaaccaa aacagggagc     300

tgatggcagt acacttaaaa acgctcctca agttcaaac ttagatttca gattt          355
```

<210> 282
<211> 619
<212> DNA
<213> Homo sapiens

<400> 282
ccggtctcta cacaatatat agaaatctgg gcatggtggt gcctggctgt agtctcagct   60

acctagttgg gtgaggtggg agagtcgctt gagtcctgga ggttgaggct gtagtgagcc   120

agggctgcac cactgcattc cagcctgggt aacagagtga gaccctgtct caaaaagaaa   180

aaaaaaaatt gctaatttta acaaatcaca aaactgactc aggcaagttg tctgactcaa   240

aagcccttga aaaaccatca aagacagtag aatgttaact ggtcatttac gtaaaatagt   300

gttcattaaa ttttggttc atttaggata atcattttaa atgagactgt atttgagact   360

gtatacacat acatatacat gtttacacac atatacgtac aatatatgta cattctatct   420

aaaagatcat acatgtgtgt acatatatgt ttttaaaagt caaactgaca tattaatgga   480

aacagtgctt acatctctgg tagtgatttt ctattagcag cagccctaca tatgctgcgt   540

ctctgaacag catgtcagtg ccatgactgt ctaaacatgc aaatatgact gacagactct   600

tgagacagct ttcaccttg   619

<210> 283
<211> 328
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (17)..(18)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (23)..(23)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (86)..(86)
<223> n is a, c, g, or t

<400> 283
aattcgnggc cgcgtcnncc tangaggcac caggaaatcc cgcggggtgg cccatgcaga   60

ccaggcgcac gtggctcatg gggcanaatt gccaaggaca gctcacgaca gtgccacctt   120

ctcaccattc cagccaagga gagatgtgac gttggaactg ctctggcact tctgtcaagc   180

ctcccccgcc ccaattgcct tgagatctct gctctttgtc agagatttgc aaagactcac   240

gttttgttg ttttctcatc attccattgt gatactaaga aactaagaag cttaatgaaa   300

agaaataaaa tgcctatgtt gttgttct   328

<210>   284
<211>   563
<212>   DNA
<213>   Homo sapiens

<400>   284
ctagaaccca tgactcctag gtcttatact gcaaccacag tatcagcaaa taatctttca   60

taaggggatt attctctgat taacaggaaa tacaggaatt taatttgtga acacgctagg   120

tagaagcaga aacccaaatc caaatccaaa tttaaacatt taaaattcat tctataacta   180

agatctaaca gtcattttct tcccagtaag aaataaccaa agcatgctaa aaatcactgg   240

actaaattgg tgtcaaaact gccacattgc caggcatggg ggggtcatac ttgtaatccc   300

agcactttgg gaggccgagg tgggaaaatt gcttgaggcc aggagttcga aaccagcctg   360

ggcaacacag tgagacccca tctccacaaa aaaaaaaat taaaaaacaa aacaaaacat   420

tagctgggca tggtggtaca cgcctgtagt cccagctact caggagcctg aagtgagagg   480

atcactgaag cccaggaggt agagctatga ctgtagtgag ctatgactgt gccactacac   540

tccacctggg tgacagggga ctc   563

<210>   285
<211>   257
<212>   DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (102)..(102)
<223> n is a, c, g, or t

<400> 285
cgacttccat ttgtattaat ggaatactaa gtccctctgt gatttctgaa ccaagctatt   60

cctaggcctg agttttattt tgttgacaca gaaataaatt anaaggccaa gcgtggtggc   120

atgtgcctgt agtcctagtt gctgaggtaa gaggattgct tgagcccagg agttcaaggc   180

tgcagcaagc tttgattgcg ccactgcact ccagccttgg cgacagacta agacgctgtc   240

tcaaaaaaaa acaaaaa   257

<210> 286
<211> 602
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (57)..(57)
<223> n is a, c, g, or t

<400> 286
ggttatcaat gagattaaga gacaactaga gtaaaaacaa aagaaaagaa aagaaangaa   60

aacaacagaa gctctattaa ctgacctcta accaatacaa caggttaact gatgttctcc   120

attctgtata taaaaatccc agtggacacc cacaacacag gcttcaggct tgtaggacac   180

tttctagttc atctgagcac ttttgttctc agcagttgag ctgtatactt agcaacattt   240

ggtgcttcca aacccatttg tgcctgtagc acttactatt gaaatacata atttaattaa   300

atattatata aaggaatgga atacgagttg acaagaaaa agagttaaat ctgaaggtta   360

ggtaaaaaga gcaacttctt ttctctgttt tgcaggttgg caaaatcatt taaaaacaat   420

tggaagtatt atatgttctg cattaagttg tcattttact taaaaactag gcatcaaaga   480

tgatgcataa taaatttagt gtatgcaaga atgactgctt gggacctcaa tatatgaatt   540

cttaatccaa ggaaagtcct tggccttaca tttaaaagtc ggcaaataag tgtacgttca   600

tt   602

<210> 287
<211> 306
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (250)..(250)
<223> n is a, c, g, or t

<400> 287
gaacatttaa aaataatgca aataaggctg ggcgtggggg ctcacacctg taatcccagc   60

actttgggag gccgaggcag gcagatcacg aggtcaggag attgagacca tcctggctaa   120

cacagtgaaa ccctgtctct acttaaaaaa taaaaaaatt agccaggcgt ggtggtgggc   180

gcctgtagtc ccagctactc aggaggctga ggcaggagaa tggtgtgaac ccgggaggcg   240

gagcttgcan tgagctgaga tcgtgccact gcactccagc ctgagcgaca gagcgagact   300

ctgtct   306

<210> 288
<211> 419
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (216)..(216)
<223> n is a, c, g, or t

<400> 288
tcattagaat ccaagctttg aaaatttctg attaatgctc atgtatttct ttatctttgt   60

ttttccttgt gaagaaagac tttcaccact gtctgagtga tgatgctgtt gataaggatg   120

atgtcgatga ctactatatt gcatctctca ggaacagctg atgggaaggg aggggctgct   180

gagttccctt gttctagcta gcagcacgct cctcanagag ggggccgagt tacagacagc   240

agccgcattc tcatgcaaaa ttagttttaa actgctagtg tgggcatcgg taccttttgc   300

ctgggtgata ccgaagaatt gttgaggatt tagtatgctc cgtagagaca gttcagccag   360

tcatttctgc attggagaga cttctcatac tttctttgaa gactcataga aagctggat   419

<210> 289
<211> 626
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (13)..(13)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (44)..(44)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (47)..(47)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (71)..(71)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (98)..(98)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (113)..(113)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (157)..(157)
<223> n is a, c, g, or t

<220>
<221> misc_feature

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<222>   (166)..(166)
<223>   n is a, c, g, or t


<220>
<221>   misc_feature
<222>   (168)..(168)
<223>   n is a, c, g, or t


<220>
<221>   misc_feature
<222>   (192)..(192)
<223>   n is a, c, g, or t


<220>
<221>   misc_feature
<222>   (195)..(195)
<223>   n is a, c, g, or t


<220>
<221>   misc_feature
<222>   (373)..(373)
<223>   n is a, c, g, or t


<220>
<221>   misc_feature
<222>   (387)..(387)
<223>   n is a, c, g, or t


<220>
<221>   misc_feature
<222>   (407)..(407)
<223>   n is a, c, g, or t


<220>
<221>   misc_feature
<222>   (449)..(449)
<223>   n is a, c, g, or t


<220>
<221>   misc_feature
<222>   (530)..(530)
<223>   n is a, c, g, or t


<220>
<221>   misc_feature
<222>   (614)..(614)
<223>   n is a, c, g, or t


<400>   289
attaaggttt gtncccaaca agaatagatg taattagaaa aaantgnctt ccttacctat      60
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tgcctctgat ntttacttgc ttaaattttt tttattgnaa atccagaaaa agnggattta   120

gagaacaaca ctaactccca cctaatctat gacaganatg tacaananag tacctgtgaa   180

aaatgtgaaa gnatntgaaa aatgtaacct ttggcagcct gagcatagtc aaccagaaaa   240

actatctgaa ttaaaataat tggtccatag gtactatttt atttggtcca taaggattat   300

tttttcaact ttttttttcaa gtgtattatt atgtcatttc ccacgtaggt tactgatacc   360

tgaagacttt ttncacottt aaccttnctc gttgaggagc tttgtantct aataaaagag   420

aaatataagt aaatgttaga tatatgggng ataatggta actatgtgct taaagaggta   480

taaaagaagg gtagggagca gataagacaa aggaagggct atattataan gaagaatatt   540

ccaagtaggg aagagaaaaa gatatgttat ccatataata ttttatgtgc agtagagaac   600

atgttctata gaanagacag aagatg   626

<210> 290
<211> 623
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (576)..(576)
<223> n is a, c, g, or t

<400> 290
cttgagccca ggaattccag cctgggcaat atagtaagac tccgtctcta caaaagatac   60

aaaaattagc cagatgtggt ggtgcgtgcc tgtagttcca gatactggaa agactgaggc   120

aggaggattg cttgagcatg ggaagttgag gctgcaatga gctgtgatta cgccactaca   180

ctccagcctg ggcaacagag taagatcttg tctcaaaaaa aaaattgaat tcagctaaaa   240

ataataaaat tttaaaataa ttttaaaaag ccctcaacag ctttgttttt ctctccttgc   300

cagcttctct gcagcctata gcctgcaggc tggctgctgc gagccaggac aagcggtggg   360

aaatgcaatc acagcgtgaa atctctgtgt tcagagacac gcaggaagca ggtgaaccat   420

gaagggccaa cacatgcccc cagttagcag ggtgtagaga ccggggcagg gctttcttct   480

tccttctggg ttataaatat ccatgtcctg ccatttgaag ctgcaagtgg cacacatgga   540

tgctggacag gcgctcgcac tttctgggca gggcangggg ctcaaaggca ggacagctgg   600

gcaaaagcac cttgcgtggg ccc   623

<210> 291
<211> 579
<212> DNA
<213> Homo sapiens

<400> 291
ctttggagct tctgtctgtg ctgtggacct caatgcagat ggcttctcag atctgctcgt   60

gggagcaccc atgcagagca ccatcagaga ggaaggaaga gtgtttgtgt acatcaactc   120

tggctcggga gcagtaatga atgcaatgga aacaaacctc gttggaagtg acaaatatgc   180

tgcaagattt ggggaatcta tagttaatct tggcgacatt gacaatgatg ctttgaagg   240

taattaaaat tatcaaattg gtgcttgatt tctgctttta aaatggttta tggaagaaaa   300

tatgattaaa gttttgtatt gttttccttc ctatagaaga tggagccaga atggcatgct   360

aagttttttc ttttctttag tgttatatat gacttctcct caattgtcac ccattgatct   420

ttaccactgt taataatgga tgatattcaa aataccttat ttcagtgatt ctaaggcacc   480

attgattaga aactgcatta ttatttatgt gtccctaaaa gctacctatt aagctgttac   540

acccaccatt tttctgttaa gaaaatcctg atttcagaa   579

<210> 292
<211> 709
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)..(4)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (24)..(24)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (47)..(47)
<223> n is a, c, g, or t

<400> 292
gtnntcctct cggaacgcgc cttntgtagc caggtgctac cagaccnaat acacggttgt   60

tccagcttgc gcattcaccg atggcgtaga tatccggatc ggaagtctgg caggaatcat   120

taatgacaat accccacgc ggagcaacgt ccagaccaca ctgggttgcc agcttatcgc   180

gcggacggat accggtagag aagacgataa agtcgacttc cagttcgctg ccgtcggcaa   240

aacgcatggt tttacgcgct tcaacacctt cctgcacaat ctcaagggtg tttttgctgg   300

tgtgaacgcg cacgcccata ctttcgattt tgcgacgcag ctgctcgccg cccatctgat   360

caagctgttc tgccatcagc ataggggcaa attcgataac gtgggtttca atacctaagt   420

ttttcagcgc gcctgcggct tccagaccta acaggccgca attcgagctc ggccgacttg   480

gccaattcgc cctatagtga gtcgtattac aattcactgg ccgtcgtttt acaacgtcgt   540

gactgggaaa accctggcgt tacccaactt aatcgccttg cagcacatcc ccctttcgcc   600

agctggcgta atagcgaaag aggcccgcac ccgatcgccc tttccaacag ttgcgcacct   660

gaatggcgaa tggaaattgt aagcgttaat attttgttaa aattcgcgt   709

<210>   293
<211>   471
<212>   DNA
<213>   Homo sapiens

<400>   293
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tgtctgacaa acccgatatg gctgagatcg agaaattcga taagtcgaaa ctgaagaaga   120

cagagacgca agagaaaaat ccactgcctt ccaaagaaac gattgaacag gagaagcaag   180

caggcgaatc gtaatgaggc gtgcgccgcc aatatgcact gtacattcca caagcattgc   240

cttcttattt tacttctttt agctgtttaa ctttgtaaga tgcaaagagg ttggatcaag   300

tttaaatgac tgtgctgccc ctttcacatc aaagaactac tgacaacgaa ggccgcgcct   360

gcctttccca tctgtctatc tatctggctg gcagggaagg aaagaacttg catgttggtg   420

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aaggaagaag tggggtggaa gaagtggggg tgggacgaca gtgaaatcta a   471

<210> 294
<211> 495
<212> DNA
<213> Homo sapiens

<400> 294
cttgtattca agaactactg taatgcatta gtggtctggc ttcattttgt atgatgccag   60

atccttaatt tacccagcac aatcatttca gtagtttcct atggctcctg caaaaatgca   120

aacagaaacc accacaggaa cagccccttg ctgcctcctg ttgctgaggt agtagtcgct   180

aaagaaaatt gaaggctcct tacaatctat atttgaaaac tagaacttct gtagaaacac   240

acagatcccg atcttagaag ttgtacagga caatctggta aaactgacat aattgtgatt   300

tattaacatg aattaaaatg cccaaccagt gcttcagtgt gacagtatat ttaaaataaa   360

aaagaaatta aaggtcatat actgtactac tttcacaaag atccacagtt ttgcaaaaga   420

cttgtcatat gtacaatgct atatatcaaa tgagaaaagc tgtaagcaat tatatacgca   480

aaagaaatgg cagta   495

<210> 295
<211> 531
<212> DNA
<213> Homo sapiens

<400> 295
ttccagtcct ttcatttagt ataaaagaaa tactgaacaa gccagtggga tggaattgaa   60

agaactaatc atgaggactc tgtcctgaca caggtcctca aagctagcag agatacgcag   120

acattgtggc atctgggtag aagaatactg tattgtgtgt gcagtgcaca gtgtgtggtg   180

tgtgcacact cattccttct gctcttgggc acaggcagtg ggtgtagagg taaccagtag   240

ctttgagaag ctacatgtag ctcaccagtg gttttctcta aggaatcaca aaggtaaact   300

acccaaccac atgccacgta atatttcagc cattcagagg aaactgtttt ctctttattt   360

gcttatatgt taatatggtt tttaaattgg taactttat atagtatggt aacagtatgt   420

taatacacac atacatatgc acacatgctt tgggtccttc cataatactt ttatatttgt   480

aaatcaatgt ttttggagca atcccaagtt taagggaaat atttttgtaa a   531

<210> 296
<211> 496
<212> DNA
<213> Homo sapiens

<400> 296
caaccctctc tcctcagcgc ttcttctttc ttggtttgat cctgactgct gtcatggcgt   60

gccctctgga gaaggccctg gatgtgatgg tgtccacctt ccacaagtac tcgggcaaag   120

agggtgacaa gttcaagctc aacaagtcag aactaaagga gctgctgacc cgggagctgc   180

ccagcttctt ggggaaaagg acagatgaag ctgctttcca gaagctgatg agcaacttgg   240

acagcaacag ggacaacgag gtggacttcc aagagtactg tgtcttcctg tcctgcatcg   300

ccatgatgtg taacgaattc tttgaaggct tcccagataa gcagcccagg aagaaatgaa   360

aactcctctg atgtggttgg ggggtctgcc agctggggcc ctccctgtcg ccagtgggca   420

ctttttttt tccaccctgg ctccttcaac acgtgcttga tgctgagcaa agttcaataa   480

                                                                         496
agattttggg aagttt

<210> 297
<211> 397
<212> DNA
<213> Homo sapiens

<400> 297
cggatgtggt ggcaggcgcc tctagtccca gctactcggc aggctgaggt aggagaatgg   60

cttgaaccca ggaggtggag ctgacagtga gccgagatcg cgccactgca ctccagcctg   120

ggcggcagag cgagactcca tctcaaaaaa aaaaaaaaaa aaaatagact ttgagaccag   180

cctgaccaac atagtgaaac ccgtcactac taaaaataca aaaattaccc gggcgtggtg   240

acgggcgcct gtaatcccag ctacttggga ggctgagaca ggagaatcac ttgaaccagg   300

gaggcggagg ttgtagtgaa ctgaaatcgt gccctgcac tccagcctgg gtaacaagag   360

                                                                         397
cgaaactccg tctcaaaaat aaataaataa ataaaat

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<210>  298
<211>  293
<212>  DNA
<213>  Homo sapiens

<400>  298
ccagcttttt atggtgttta atctaataca cttaagctgc agtcccaaaa ttaggggtcc      60

ttcagtcttg gagactataa gggagcctct gcacccaggg aaaatgttac cctttacagg     120

ggggaagggt aaaccagtag ggaatacagt acaatcccaa ccctactggg aggggcggga     180

gggaggtgtt gccgtcactg tattaagtcg atgttgggaa acgttttaac atctggagcc     240

tttgtgggtg gaaatatgtc tccagttaca actccgcagt ggatgtgaag aag           293


<210>  299
<211>  452
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (210)..(210)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (449)..(449)
<223>  n is a, c, g, or t

<400>  299
ggaagctaca atgattttgg gaattacaac aatcagtctt caaattttgg acccatgaag      60

ggaggaaatt ttggaggcag aagctctggc ccctatggcg gtggaggcca atactttgca     120

aaaccacgaa accaaggtgg ctatggcggt tccagcagca gcagtagcta tggcagtggc     180

agaagatttt aattaggaaa caaagcttan caggagagga gagccagaga agtgacaggg     240

aagctacagg ttacaacaga tttgtgaact cagccaagca cagtggtggc agggcctagc     300

tgctacaaag aagacatgtt ttagacaaat actcatgtgt atgggcaaaa aactcgagga     360

ctgtatttgt gactaattgt ataacaggtt attttagttt ctgttctgtg gaaagtgtaa     420

agcattccaa caaagggggtt ttaatgtana tt                                   452
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<210> 300
<211> 480
<212> DNA
<213> Homo sapiens

<400> 300
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caaatgaagg aggaggatgt ccttaagttc cttgcagcag gaacccactt aggtggcacc   120

aatcttgact tccagatgga acagtacatc tataaaagga aaagtgatgg catctatatc   180

ataaatctca agaggacctg ggagaagctt ctgctggcag ctcgtgcaat tgttgccatt   240

gaaaaccctg ctgatgtcag tgttatatcc tccaggaata ctggccagag ggctgtgctg   300

aagtttgctg ctgccactgg agccactcca attgctggcc gcttcactcc tggaaccttc   360

actaaccaga tccaggcagc cttccgggag ccacggcttc ttgtggttac tgaccccagg   420

gctgaccacc agcctctcac ggaggcatct tatgttaacc tacctaccat tgccctgtgt   480

<210> 301
<211> 498
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (426)..(426)
<223> n is a, c, g, or t

<400> 301
gtggtacata tacacaaagg aaaactatgt agccattaaa agaaaaggaa ctcctatcat   60

ttgtaacaac ataaataaat ctggaggaga ttaggctaag gtgaaataag ccaggcacaa   120

aaagacaact accatatgat cttacttata cgtgtgtgga atctaaaaag gtggaattta   180

cagaagcaga gagtagaatg gtgattacca gaggctgggg agtgagggca ggaggttgga   240

gaaatgttgg tcaaaggata caaagtttca gttatacagg atgaataagt tcaagagatc   300

tattgtacaa cgtggtggct atagttgata acaatgtatt gtgttcttga aaaatgctga   360

gagagtagat tttaagtgtt ctcaccacaa aacataagta tgtgaggtaa tgcatgtgtt   420

aattanctta atttagacat ttcataatgt attatacata tttcaaaacc acgttgtaca   480

tgagaaagat acacaatt   498

<210> 302
<211> 474
<212> DNA
<213> Homo sapiens

<400> 302
gcccagtcga cccatgttct cctttctaca ccagcattag acgctgtctt cacagatttg   60

gaaatcctgg ctgccatttt tgcagctgcc atccatgacg ttgatcatcc tggagtctcc   120

aatcagtttc tcatcaacac aaattcagaa cttgctttga tgtataatga tgaatctgtg   180

ttggaaaatc atcaccttgc tgtgggtttc aaactgctgc aagaagaaca ctgtgacatc   240

ttcatgaatc tcaccaagaa gcagcgtcag acactcagga agatggttat tgacatggtg   300

ttagcaactg atatgtctaa acatatgagc ctgctggcag acctgaagac aatggtagaa   360

acgaagaaag ttacaagttc aggcgttctt ctcctagaca actatacccg atcgcattca   420

ggtccttcgc aacatggtca ctgtgcagac ctgagcaacc ccaccaagtc cttg   474

<210> 303
<211> 535
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (492)..(492)
<223> n is a, c, g, or t

<400> 303
ctgtaacaga gattcctttt ttcaataatc ttaattcaaa agcattatta gacttgaaag   60

ggtttgataa tctcccagtc cttagtaaag attgagagag gctggagcag ttttcagttt   120

taaatgagtc tgcagttaat atcaaatgtg agtttgggac tgcctggcaa catttatatt   180

tcttattcag aacccttgat gagactattt ttaaacatac tagtctgctg atagaaagca   240

ctatacatcc tattgtttct ttctttccaa aatcagcctt ctgtctgtaa caaaaatgta   300

ctttatagag atggaggaaa aggtctaata ctacatagcc ttaagtgttt ctgtcattgt   360

tcaagtgtat tttctgtaac agaaacatat ttggaatgtt tttctttttcc ccttataaat   420

tgtaattcct gaaatactgc tgctttaaaa agtcccactg tcagattata ttatctaaca   480

attgaatatt gnaaatatac ttggcttacc tctcaataaa agggtctttt ctatt   535

<210> 304
<211> 464
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (427)..(427)
<223> n is a, c, g, or t

<400> 304
tccacccacc ttgacctccc aaagtgctgg gattataggc gtgagccacc tcgcccagcc   60

cgatactagg acttatgcag aaaaaacctt gacatggagg aaagtaagat ctaaataaat   120

actgtattca tagattaaaa gactcagcat aataaatata ccatttctcc ccagattgat   180

gtacagattt aacacaattc ctatcaagat cccagcaaga tttttgtaga tatgtaaaag   240

attattcaaa aatgtaaaag gaaggacaaa ggactagaat agataaaaca aaatggagaa   300

agatttaata ggaatcactg taactgattt taagacatac agaacaataa tagaaactgc   360

ttgtattagt ccattttcac gctgctgata aagacatacc tgagattggc aattacaaag   420

gaaagangtt tattggctta cagttcccat ggctggggag gcct   464

<210> 305
<211> 588
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (511)..(511)
<223> n is a, c, g, or t

<220>

<221> misc_feature
<222> (546)..(546)
<223> n is a, c, g, or t

<400> 305
ctcctctggg ttgaaacccg ggcgccgcca agatgccggc ttaccactct tctctcatgg   60

atcctgatac caaactcatc ggaaacatgg cactgttgcc tatcagaagt caattcaaag   120

gacctgcccc cagagagaca aaagatacag atattgtgga tgaagccatc tattacttca   180

aggccaatgt cttcttcaaa aactatgaaa ttaagaatga agctgatagg accttgatat   240

atataactct ctacatttct gaatgtctga agaaactgca aaagtgcaat tccaaaagcc   300

aaggtgagaa agaaatgtat acgctgggaa tcactaattt tcccattcct ggagagcctg   360

gttttccact taacgcaatt tatgccaaac ctgcaaacaa acaggaagat gaagtgatga   420

gagcctattt acaacagcta aggcaagaga ctggactgag actttgtgag aaaagttttc   480

gaccctcaga atgataaacc cagcaagtgg ngggcttgct ttgtgaagag acagttcatg   540

aacaanagtc tttcaggacc tggacagtga agggagcccg ggcagcca   588

<210> 306
<211> 492
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (12)..(12)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (117)..(117)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (291)..(291)

<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (313)..(313)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (322)..(322)
<223> n is a, c, g, or t

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<221> misc_feature
<222> (410)..(410)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (417)..(417)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (459)..(459)
<223> n is a, c, g, or t

<400> 306
cgnggccgcg tnaacttttg atcgtcagct ggggctggca ggcacctaaa tgggaagggt   60

gatagcagtg tgttgggggg agtttaggga acggtcctct accgatagag gcagcanctc   120

attggaattt cctcctgaag ttgtcttgcc ccttgaatcc tgcaggaagg ctggcaaatg   180

gccatttccc ttccacttga atagagaccc ataactcaag tatctgccct taagacacca   240

caggactgtt cttcgcgggc cctgcccctg gatttgggag aggcagtcca nctcacccaa   300

ctaggctctg cangggacc angagggatg ggttgtgtcc acaggaccag ccagactgat   360

gagggatgcg gcaagcatat tctcaccacc ttctttcacg tttacaacan accagcnttc   420

cctgtgtggc aggggttaca ttggtcaccg aggacctana atcatggagt gctctgggga   480

tccgggcttg ga   492

<210> 307
<211> 430
<212> DNA

<213> Homo sapiens

<220>
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<222> (396)..(396)
<223> n is a, c, g, or t

<400> 307
tcagtgttga attttgtcag acactttctc tgcatcaatt ggtatgacca tgtgattttt   60

tttctgtagc ctgttaatat ggttaatttt caaatattga gctgattaat tttcaaatat   120

tgagctctcc ttgcatctct ggaataagta ccacttggtc gtggtatata tttctttttaa   180

tatattgctg aattctgttt gatcatgttt tcttaaagac tttcgtgtct gttttcatga   240

tagatactgg tctatagttt tgttgtaata tcttggtttg attttgatat caggataatg   300

ctaccttaat agaatgaatt ggagccaagt atggtggcaa atgcctatag tcctagctac   360

tcaggaggct gaggtggtgg ggactgcttg acccangagt tcaaatctag cttgggcaat   420

gtagcaagac   430

<210> 308
<211> 574
<212> DNA
<213> Homo sapiens

<400> 308
tagaaggaat gactattcat gtccaaagtg aatggttttg tgcagtgaac aacacatggc   60

gaggtactaa ctgagaaact ttttcatgct ttatgcctac ctcttgtagt tgttgcagag   120

caaatataaa ttgtaataag atagctaggc cttgcagaaa caaacagaaa aacttaaaaa   180

aaaatgatat aagagctgga gtctagtatt tatatgaatc tgtgagagat aatttttttg   240

gtctcactgc aatgaaccaa aagcggctga gtttggtttt taattgtagc catgtattga   300

aggcatcttt ttgaccaact cttgttggtt ctgtcttgaa ccattgttaa tcactgtgct   360

gtaattagta tagctaaatc ttttccttcc ttgctcctcc cccagcccac cccgtcttcc   420

cttaacattt tttcaggggg ggttgggagt ggtttcattt taatgtgagt ggatgttttg   480

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agtatgtctt attggtaata agaatgtaat tcat   574

<210> 309
<211> 327
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is a, c, g, or t

<400> 309
cnttccntaa gaatacaaaa aattagctgg gcgtggtggc aggcgcctgt aatcccatct   60

actcaggaag ctgaggctgg agaatcgctt gaacccggga ggcggaggtt gcagtgagca   120

gagatcacgc cactgcagtc cagcctgggc aacagtgcga gactctgtct caaaaaaaaa   180

ataaataaat tacctgggtg tggcagcgcg tgcctgtaat cccagctacc caggaggctg   240

aggcaagaga actgcttgaa cccaggaggc agaggttgca tggagctgag atggcgccac   300

tgcactccag tctggtgaca gagtgag   327

<210> 310
<211> 273
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (37)..(37)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (210)..(210)
<223> n is a, c, g, or t

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<221> misc_feature
<222> (225)..(225)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (227)..(227)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (229)..(229)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (245)..(245)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (273)..(273)
<223> n is a, c, g, or t

<400> 310
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accaggtact cgggaggctg aggcaggaga atcgcttgaa ccagggagtc ggaggttgcg   120

gcgagctgag atcatgccac tgcactgcgg cctggagaca agagcaagac tccgtctcaa   180

aaaaaaaaaa aaaaaaaaaa aaaaaagacn tcacctaatt gcagngngng gaccttattt   240

ggctnttaat tcaaactatt aaaaatgtga acn   273

<210> 311
<211> 260
<212> DNA
<213> Homo sapiens

<400> 311
cggggtctgt accgggctgg cctgtgccta tcacctctta tgcacacctc ccaccccctg   60

tattcccacc cctggactgg tggcccctgc cttggggaag gtctccccat gtgcctgcac   120

caggagacag acagagaagg cagcaggcgg cctttgttgc tcagcaaggg gctctgccct   180

ccctccttcc ttcttgcttc tcatagcccc ggtgtgcggt gcatacaccc ccacctcctg   240

caataaaata gtagcatcgg   260

<210> 312
<211> 538
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is a, c, g, or t

<400> 312
ctgagtntag aaatgatgcc attaatactg attgcaaaaa cattacaact cagtactgca   60

gctttcattc aaataggtta tatgtataaa ctgagttcaa caatattgta tttgagatgg   120

taaagttaaa gaaatgcaat aatgtaaata atacttaaga aaataagatc tcaggaaact   180

gtatatactc tgtacttta tgcaacttta tcagatcatt tcagtatatg catcaaggat   240

atagtgtata tgacatgaac tttgagtgca aaaactgtac tatgtacctt ttgtttattt   300

tgctgtcaac atctaaataa aggtttttt gtttgttttt tgttttttta attgttttgt   360

tttaaagatt gttttaatta attaaaaaat taattgtttt aattaaacaa ttgtttaatt   420

gttttaaagt cgccaggctg aggcaggtga atcacaagct taggagttgg aggctagcct   480

gccaacatgg tgaaacccg tctctactaa aaatacaaaa aaattaactg ggtgtggg   538

<210> 313
<211> 629
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (549)..(549)
<223> n is a, c, g, or t

<400> 313
cccatctgca ccagtacaca ggcaggcatt atcattcttc acctactttt taaatagtgg   60

caacttggga ttcattctgg tgattctgaa ccttgcctca tagcttaaag tataaaaaag   120

attcaagagc agtgaggttt gttctttcca gtgaatggtg gactgagtgg tgcgaggtgg   180

agggctaaca agaggaaaga actacattct tcagaataca gtgatgaaaa ttcattttga   240

aactcaaata ttttcatttt ggatattctc ctgttttat taaaccagtg attacacctg   300

gccatccctc taaatgttct aggaaggcat gtctattgtg attttgatga agacagaatt   360

attttctct gtagaaacac agataccact ttatcagggg aagttagtca aatgaaatgg   420

aaattggtaa atggacaaaa gctagctagt aaaaaggacg acccagcaac atgctttaac   480

cccattgtat gtttgtggaa agagcatagt ttaacatctt gagaaatttg ggacataaaa   540

gttttcatng gtagacagtt catggcagta tatgaattga cataatggaa ataatctgat   600

tttattttta caactaacat cctttcccc   629

<210>   314
<211>   641
<212>   DNA
<213>   Homo sapiens

<220>
<221>   misc_feature
<222>   (635)..(635)
<223>   n is a, c, g, or t

<400>   314
ggaattccaa gtgcttgggg ataatgatac ctctgacctt tcttccttt gggaagtact   60

tgagtgtgca gctgcatgag gcctcagcag gagagagatt ttaggtccaa gaagctatac   120

cagtaggaca aggcaggaaa atactacact ttcaggatca agcccctctg actctcattt   180

ggaaactgga tgtttgctaa gcacctgctt cttaaggatg ccgagggatt taatgatact   240

cccagaaacc tggagagatt aatgggggcct atggagaagt gctctgaact cagtgttggg   300

acttgaataa aattaaccat tgtcatgttt tcagaacaac taagctgttt tatatttcat   360

gtgcatgaaa gccctagaac taagttgtgt tatttccaga aatgaaatag atcccacagt   420

tagatgatgt ggccattagg aagtaccaaa tttataaaaa tcactggagg tctgtctgag   480

cagtacctaa taaaatatag tatactgaaa gtgaacagat actttgtctc tttctttggc   540

tgcttgatct ttatctgtgt ctgccgtaca gtgcaccctt aaagtattct acaccagtgc   600

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ttctcaaact ggaaatgtgc atgtaagtca cccangggtc t                    641
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<210> 315
<211> 645
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (215)..(215)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (398)..(398)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (598)..(598)
<223> n is a, c, g, or t

<400> 315
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tgcatgccca tagtcccagc tatttgggag gctgaggcag gaaaatcgct tgaacccggg     60

agccagaggt tgcagtgagc cgagatcgca ctccagcttg gcgacagaac aagactctgt    120

ctcaaaaaaa aaaaaaaaag aaatcttggg atcctgaacc ccttactcga agggctaagg    180

tagcatctca gcatgtctta ttcgagactt cgtanaacca gacctgctgt ttgtagatgt    240

taattaatca aacctttctc tactcattct ggaccagtta aggttttctc cttctccgta    300

tgagttttga ttttcgtcct ccttggttgg agatcacact ttggtctgct gctaagttgg    360

atgcctccca ctgtctttcc ctaagtctag ggcttcanac cccagtgtgg ggagagggac    420

tttcgtttcc tgcccctcac cacatcagac acaggcaggc aagaataaga tggccaaaag    480

gccgatgaac ttcttgacct agcctgggac attacctgtt actaggtgga cttcactgcc    540

tgtgaatgga agctgaaggg ctgttttttt ggtttgtatt tggacaggcc aggcttanag    600

agggagagaa ctgggctact cttcagcagt gatctttaaa atgcc               645
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<210> 316

<211> 542
<212> DNA
<213> Homo sapiens

<400> 316
cagagtgcaa gacgatgact tgcaaaatgt cgcagctgga acgcaacata gagaccatca   60

tcaacacctt ccaccaatac tctgtgaagc tggggcaccc agacaccctg aaccagggggg   120

aattcaaaga gctggtgcga aaagatctgc aaaattttct caagaaggag aataagaatg   180

aaaaggtcat agaacacatc atggaggacc tggacacaaa tgcagacaag cagctgagct   240

tcgaggagtt catcatgctg atggcgaggc taacctgggc ctcccacgag aagatgcacg   300

agggtgacga gggccctggc caccaccata gccaggcct cggggagggc accccctaag   360

accacagtgg ccaagatcac agtggccacg gccacggcca cagtcatggt ggccacggcc   420

acagccacta atcaggaggc caggccaccc tgcctctacc caaccagggc cccggggcct   480

gttatgtcaa actgtcttgg ctgtggggct aggggctggg gccaaataaa gtctctttcc   540

tc   542

<210> 317
<211> 583
<212> DNA
<213> Homo sapiens

<400> 317
gaaccctgcg gagggacttc aatcacatca atgtagaact cagccttctt ggaaagaaaa   60

aaaagaggct ccgggttgac aaatggtggg gtaacagaaa ggaactggct accgttcgga   120

ctatttgtag tcatgtacag aacatgatca agggtgttac actgggcttc cgttacaaga   180

tgaggtctgt gtatgctcac ttccccatca cgttgttat ccaggagaat gggtctcttg   240

ttgaaatccg aaatttcttg ggtgaaaaat acatccgcag ggttcggatg agaccaggtg   300

ttgcttgttc agtatctcaa gcccagaaag atgaattaat ccttgaagga atgacattg   360

agcttgtttc aaattcagcg gctttgattc agcaagccac aacagttaaa aacaaggata   420

tcaggaaatt tttggatggt atctatgtct ctgaaaaagg aactgttcag caggctgatg   480

aataagatct aagagttacc tggctacaga aagaagatgc cagatgacac ttaagaccta   540

cttgtgatat ttaaatgatg caataaaaga cctattgatt tgg   583

<210> 318
<211> 424
<212> DNA
<213> Homo sapiens

<400> 318
cttggctcct gtggaggcct gctgggaacg ggacttctaa aaggaactat gtctggaagg   60

ctgtggtcca aggccatttt tgctggctat aagcggggtc tccggaacca aagggagcac   120

acagctcttc ttaaaattga aggtgtttac gcccgagatg aaacagaatt ctatttgggc   180

aagagatgcg cttatgtata taaagcaaag aacaacacag tcactcctgg cggcaaacca   240

aacaaaacca gagtcatctg gggaaaagta actcgggccc atggaaacag tggcatggtt   300

cgtgccaaat tccgaagcaa tcttcctgct aaggccattg gacacagaat ccgagtgatg   360

ctgtacccct caaggattta aactaacgaa aaatcaataa ataaatgtgg atttgtgctc   420

ttgt   424

<210> 319
<211> 626
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (593)..(593)
<223> n is a, c, g, or t

<400> 319
gatttttttt tttttttga gatggagtct ttctctgtcg cccaggctgg agtgcagtgg   60

tgaaatctcg actcactgca acctccgtct cctgggttca agcaattctc ctgcctcagc   120

ctcctgagta gctgggatta caggcaccag ccaccacgcc cggctaattt ttgtattttt   180

agtagagaca ggttttcacc atgttggcta ggctgatttt gaactcatga ccccaagtga   240

tctgcccgcc tcggcctccc aaagtgctgg aattacaggt gtgagctacc actcccagcc   300

aatgattaca tttataaggt aaaataactt gtgccaatct gtacaagtga attcagattt   360

aaaattttaa ttgtaaaaag atatccaggt gatatttctc cctgaataat ttagtttcct   420

tttctatttc ttgatataaa agtactcagc attgaagtaa ttgctatctt cacatttctt   480

cctatttgag ctgtctaaat aagtagtcct acatattttc cccccaacac aaaaaaccca   540

gaaaagaatt attttatact ggattttttt ggttgtagca ggaacctaaa ggngccaatt   600

gtaacatgca tgttcttttt ggcaaa   626

<210> 320
<211> 618
<212> DNA
<213> Homo sapiens

<400> 320
gtccatcctg caggccacaa gctctggatg aggaacttga ggcaagtcac cagcccctga   60

tcatttcgcc taaaagagca aggactagag ttcctgacct ccaggccagt ccctgatccc   120

tgacctaatg ttatcgcgga atgatgatat atgtatctac gggggcctgg ggctgggcgg   180

gctcctgctt ctggcagtgg tccttctgtc cgcctgcctg tgttggctgc atcgaagagt   240

aaagaggctg gagaggagct gggcccaggg ctcctcagag caggaactcc actatgcatc   300

tctgcagagg ctgccagtgc ccagcagtga gggacctgac ctcaggggca gagacaagag   360

aggcaccaag gaggatccaa gagctgacta tgcctgcatt gctgagaaca aacccacctg   420

agcaccccag acaccttcct caacccaggc gggtggacag ggtccccctg tggtccagcc   480

agtaaaaacc atggtccccc cacttctgtg tctcagtcct ctcagtcatc tcgagcctcc   540

gttcaaaatg atcatcatca aaacttatgt ggcttttga cctttgaata gggaattttt   600

taaaattttt taaaaatt   618

<210> 321
<211> 596
<212> DNA
<213> Homo sapiens

<400> 321
ccagcgcagg ggcttctgct gagggggcag gcggagcttg aggaaaccgc agataagttt   60

ttttctcttt gaaagataga gattaataca actacttaaa aaatatagtc aataggttac   120

taagatattg cttagcgtta agtttttaac gtaattttaa tagcttaaga ttttaagaga   180

aaatatgaag acttagaaga gtagcatgag gaaggaaaag ataaaaggtt tctaaaacat   240

gacggaggtt gagatgaagc ttcttcatgg agtaaaaaat gtatttaaaa gaaaattgag   300

agaaaggact acagagcccc gaattaatac caatagaagg gcaatgcttt tagattaaaa   360

tgaaggtgac ttaaacagct taaagtttag tttaaaagtt gtaggtgatt aaaataattt   420

gaaggcgatc ttttaaaaag agattaaacc gaaggtgatt aaaagacctt gaaatccatg   480

acgcagggag aattgcgtca tttaaagcct agttaacgca tttactaaac gcagacgaaa   540

atggaaagat taattgggag tggtaggatg aaacaatttg gagaagatag aagttt   596

<210>   322
<211>   534
<212>   DNA
<213>   Homo sapiens

<220>
<221>   misc_feature
<222>   (517)..(517)
<223>   n is a, c, g, or t

<400>   322
gaggaaaggg gagttaatat ttagtggaca gaatttcagt tttacagatg aaaagagttc   60

tggagataga cggtgttgat agttgcacag cagtgtgaat gtgctcattg ttaccgaact   120

taaaaatgtt taacatagta ttatgtgatt tttattttgc cacttaaaaa aaaagaatga   180

agtactgata catgctacaa catgggtgag ctttaaatac attctgctca gtgaaataag   240

ccagatgcaa aagatcacat attatataat ccacttatac gagatccta gaataggcaa   300

attcatagag acagaaagta gaatagtggt tcccaggggc tggggacaag ggggcagtga   360

gagattgaga gttattatta atgcgtacag agtttcagtt tgggctgata aaaaagttct   420

gaagatggat ggtgatgatg gttgtacatc aatgtgagtg taattaccgc cactgaactg   480

cccttaaaaa cgtttaaaag agtaaatttt atgttgngta tattttacca taat   534

<210>   323
<211>   556

<212> DNA
<213> Homo sapiens

<400> 323
tttttttttc ataagaggca agtacaagaa aaagcttaat tactttaact tctaagtagt   60

ttggaatcta aataaatagg agttaccaaa tatatgcgct tctgtgaata gttttccccc   120

acatgtttat ttatattttt gcatctcatc aaacctaaca gattctaaag tctctggtga   180

taatgacaat atctgctacg gagagactag cctggggaa gaggatctcc ctgaacaagg   240

atagcggagt tgctgcagct ttcaaatgaa gctggacatt tagctgcggg ggtagcaccc   300

tttgatcaag gcagcccaaa gatgagtttc agggatggga ctgacagaag agaaaagttc   360

ttcccagccc tttctacttt ttctctttgt ttctcaggct tctggccgtc ttcagttttc   420

acaagtttca ctctcaaccc taaacagtac ttctgtgaag tacccttgg ccctcgttt   480

tcagctccta aactcacctg gaaatagatg tcaatctaat tttgggtctg actagtgcag   540

                                                                     556
taggcatttt tggtga

<210> 324
<211> 382
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (349)..(349)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (353)..(353)
<223> n is a, c, g, or t

<400> 324
ctcacacaga acaaaaatga atgagtgtgg ctgtgtgcca ctatcactgt gtctacaaaa   60

acagccagtg ggcctgattt ggcccttggc tgcagtgcgc ccgtctctgt ttttgaggaa   120

taaaatcgca tcatttcata tggctaatgc aattttttc ccatctggaa gcaacatctg   180

attggactca tcttgtatgg tgcttgttac agtctctgta aatgggagag ggtccgagaa   240

tagctcttcc tgttttcatc aggactgttt ttagggatgg caaagaagtc agtgtgtcca   300

gcctgtgtcc tcctcaccac gtggctgatt cctgaatctg catgtgcanc acntgccgtt   360

                                                                      382
gtctggggca tgatctgtgt ga

<210> 325
<211> 556
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (507)..(507)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (510)..(510)
<223> n is a, c, g, or t

<400> 325
cttttctctg ggtatagatt taccctagca cctatctcat tatattgaat tttccagcat   60

atttaaataa actattaatt agtcacacta tttcttaaaa gtcacactat caactaatcg   120

tgaccgcaat tatctagggg tgataatctg ctgagtctac tctttaaata cactgggacc   180

cagcatattg agttatattg gcacagaaac ttcactctgg gtatagattt accctagtac   240

cttgccggca ggatcctatt attcatggtt gtacaagcaa ggttcaggga agaggctggc   300

acagagaagg tacctggtaa ctgttgtttg aggctgaatt cagctcaact cagctccagt   360

agagatggtg tccccttctc taccgtgttg agatagtgtg cagtcccttc ctaagggctg   420

ttacccaccg cataggact tgtcagcttc aactttaaa tttctctgct cccgctggga   480

cccacccgct tcaaaaatca tcatggnggn tttagcacca atttagtaaa cacaaactgt   540

                                                                      556
ctgaaatatt ttggat

<210> 326
<211> 716
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (567)..(567)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (666)..(666)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (698)..(698)
<223> n is a, c, g, or t

<400> 326
gaacattcaa gatagtgaga ggaagaaaaa gatatggctg tacgggaccg aggtctcttc   60

tattatcgcc tcctcttagt tggcattgat gaagttaagc ggattctgtg tagccctaaa   120

tctgacccta ctcttggact tttggaggat ccggcagaaa gacctgtgaa tagctgggcc   180

tcagacttca acacactggt gccagtgtat ggcaaagccc actgggcaac tatctctaaa   240

tgccaggggg cagagcgttg tgacccagag cttcctaaaa cttcatcctt tgccgcatca   300

ggacccttga ttcctgaaga gaacaaggag agggtacaag aactccctga ttctggagcc   360

ctcatgctag tccccaatcg ccagcttact gctgattatt ttgagaaaac ttggcttagc   420

cttaaagttg ctcatcagca agtgttgcct tggcggggag aattccatcc tgacaccctc   480

cagatggctc ttcaagtagt gaacatccag accatcgcaa tgagtagggc tgggtctcgg   540

ccatggaaag catacctcag tgctcangat gatactggct gtctgttctt aacagaactg   600

ctattggagc ctggaaactc agaatgcaga tcttttgtga acaaaatgaa gcaagaaccg   660

gagacnctga atagttttat ttctgtatta aaaactgnga ttggaacaat tgaaga   716

<210> 327
<211> 664
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (586)..(586)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (631)..(631)
<223> n is a, c, g, or t

<400> 327
ccactccacc ttactaccag acaaccttag ccaaaccatt tacccaaata aagtataggc   60

gatagaaatt gaaacctggc gcaatagata tagtaccgca agggaaagat gaaaaattat   120

aaccaagcat aatatagcaa ggactaaccc ctataccttc tgcataatga attaactaga   180

aatgaggatt ctgaccttga ctttgatatc agcaaattgg aacagcagag caaggtgcaa   240

aacacaggac atggaaaacc aagagaaaag tccataatag acgagaaatt cttccaactc   300

tctgaaatgg aggcttattt agaaaacaga gaaaagaag aggaacgaaa agatgataat   360

gatgatgagt caggtaaaag ttccagaaat gtgaacaaca aagatttttt tgatccagtt   420

gaaagtgatg aagacatagc aagtgatcat gatgatgagc tgggttcaaa caagatgatg   480

aaattgctga agaagaagca gaagaaggaa gcatttctga aatatgaatg aaaaaaatta   540

catctttaga aaaagagtta ttagaaaaaa gccttggcag ccgtcngggg gaagtgacgc   600

acagaagaga ccagagaata gcttcctgga ngagaccctg cactttaccc atgctgctgg   660

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atgg

<210> 328
<211> 641
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (522)..(522)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (532)..(532)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (537)..(537)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (629)..(629)
<223> n is a, c, g, or t

<400> 328
ccgggtttta gtatttaacc aagagccttt taaatattga aaacccatag ttcagaaaat   60

gttagtattg ctgcccttct tcacataaat ttttttttaa attatactat tattttgctt   120

aattttatat tgggttaaaa caaccttcaa gaaggttaac taggaaagaa gacctttttg   180

ttttattttt actatttata tatagaagac aaatcagcat ttggtgatag ttttacatga   240

ccagttatca aacggtcata gtatgaagtg tgcagttgtt cattattagt aaattatgtt   300

tgatttttaa actatttagt actaatagtt gagatgaaaa ctgaagaaaa atgccaatgt   360

gacgtttgtg tatagctagc cttaaaaaac ttcccatgtt tttaggtgac tttttccccc   420

ctcttagtac tctggagaaa caatgaagat gggccatctc aattccagat gtaaacaaaa   480

agtaattttt atttcaacat ttaatgtaac tgctattatt gnggattctt gncttgngta   540

ttttctttcc cttattcaag taatatagaa taactttcct taaaatgatt tgatccaaga   600

tacgtcattt ctgtattggc aaaatgccnc tattaaagtg t   641

<210> 329
<211> 132
<212> DNA
<213> Homo sapiens

<400> 329
gttaaagtga tacattttta taccaaatgt gtttattttt ttgtgcaagt aatccttaaa   60

attgcaattg tattaggtgt taaaataaag tttttaaaaa attaaaaaaa aaaaaaaaaa   120

aaaaaaaaaa aa   132

<210> 330
<211> 666
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (623)..(623)
<223> n is a, c, g, or t

<400> 330
gacaacctta gccaaaccat ttacccaaat aaagtatagg cgatagaaat tgaaacctgg   60

cgcaatagat atagtaccgt aagggaaaga tgaaaaatta taaccaagca taatatagca   120

aggactaacc cctatacctt ctgcataatg aattaactag aaataacttt gcaaggagag   180

ccaaagctaa gacccccgaa accagacgag ctacctaaga acagctaaaa gagcacaccc   240

gtctatgtag caaaatagtg ggaagattta taggtagagg cgacaaacct accgagcctg   300

gtgatagctg gttgtccaag atagaatctt agttcaactt taaatttgcc cacagaaccc   360

tctaaatccc cttgtaaatt taactgttag tccaaagagg aacagctctt tggacactag   420

gaaaaaacct tgtagagaga gtaaaaaatt taacacccat agtaggccta aaagcagcca   480

ccaattaaga aagcgttcaa gctcaacacc cactacctaa aaaaatccca aacatataac   540

tgaactcctc acacccaatt ggaccaatct atcaccctat agaagactaa tgttagtata   600

agtaacatga aaacattctt ctncgcataa gcctgcgtca gattaaaaca ctgaactgac   660

                                                                        666
aattaa

<210> 331
<211> 370
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (67)..(67)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (142)..(142)
<223> n is a, c, g, or t

<400> 331
aaagagctcc caaatgctat atctattcag gggctctcaa gaacaatgga atatcatcct   60

gatttanaaa atttggatga agatggatat actcaattac acttcgactc tcaaagcaat   120

accaggatag ctgttgtttc anagaaagga tcgtgtgctg catctcctcc ttggcgcctc   180

attgctgtaa ttttgggaat cctatgcttg gtaatactgg tgatagctgt ggtcctgggt   240

accatggctg gtttcaaagc tgtggaattc aaaggataaa ttaatgaaga aaacaagcgg   300

agctgaagaa gaaagtacaa tatggtgctg tcttcctaat gaaataaatt cactaaatgg   360

acattaaaaa   370

<210> 332
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (612)..(612)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (677)..(677)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (690)..(690)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (703)..(703)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (713)..(713)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (719)..(719)

<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (726)..(726)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (730)..(730)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (736)..(736)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (739)..(739)
<223> n is a, c, g, or t

<400> 332
agactcgagc aagcttatgc atgcatgcgg ccgcaattcg agctcggcca cttggccaat   60

tcgccctata gtgagtcgta ttacaattca ctggccgtcg ttttacaacg tcgtgactgg   120

gaaaaccctg gcgttaccca acttaatcgc cttgcagcac atccccttt cgccagctgg   180

cgtaatagcg aagaggcccg caccgatcgc ccttcccaac agttgcgcag cctgaatggc   240

gaatggaaat tgtaagcgtt aatattttgt taaaattcgc gttaaatttt tgttaaatca   300

gctcatttt taaccaatag gccgaaatcg gcaaaatccc ttataaatca aaagaataga   360

ccgagatagg gttgagtgtt gttccagttt ggaacaagag tccactatta aagaacgtgg   420

actccaacgt caaagggcga aaaaccgtct atcagggcga tggcccacta cgtgaaccat   480

caccctaatc aagttttttg gggtcgaggt gccgtaaagc actaaatcgg aaccctaaag   540

ggagccccg atttaaagct tgacggggaa agccggcgaa cgtggcgaga aaggaaggga   600

aaaaagccaa anggagccgg cgctagggcc tggcaagtgt acgggcacgc tgcgcgtaac   660

cacccacacc ccgccgngct taatgccccn ttcagggcgc gtnctgatgc cgnattttnt   720

cttacncatn tgtgcnggnt t   741

<210> 333
<211> 719
<212> DNA
<213> Homo sapiens

<400> 333
taaaataatg gcaaaaaaca aacaaaaaac aagttctcta aacagaaagg aaattactaa   60

agaaggaatc ttgaaataac aggaaagagg aaataccaca gtaggcaaca ttatgggtaa   120

ataaaacaga ctttccttct ttagtttcct aaaatatgtt tgatgattaa tgcaaaaatt   180

acaatatttt cttatgtagc actaaaggta tgtagagaaa atatttaaga taattgtact   240

gtaagcggga gatgacagtg acataaaggc aacgttttta tacttcactc aaactttatg   300

tattaatgta atccataaag caaccaaaaa agctatacta agtacattca aaaacacaat   360

agataaacca aacaaaattc taaaggatgt acaagtaacc cactggaagc tgcaaaaaat   420

gtaaacagaa actaaaaaca gagaataaat gaaaaattaa aaacgaaatg gcagacttag   480

gccctaatat acaaattatc acattaaata taaatggtct aaatacacca actgtaagac   540

agagattagc aaagtcgatt taaaaacatg actcaactac gtgctgtcta caagaaactc   600

acttcaaata taccaagata ggaaggttga aagtaaaacg atggaaaaag atgtatcatg   660

tgaacattaa tcaaaggaaa gcaggggtgg ctatattaac atcaggtaaa ataaacttt   719

<210> 334
<211> 603
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (20)..(20)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (548)..(548)

<223> n is a, c, g, or t

<400> 334
tgaggntggt catgatgcan aagctactca aatgcagtcg gcttgtcctg gctcttgccc   60

tcatcctggt tctggaatcc tcagttcaag gttatcctac gcggagagcc aggtaccaat   120

gggtgcgctg caatccagac agtaattctg caaactgcct tgaagaaaaa ggaccaatgt   180

tcgaactact tccaggtgaa tccaacaaga tccccgtct gaggactgac cttttccaa   240

agacgagaat ccaggacttg aatcgtatct tcccactttc tgaggactac tctggatcag   300

gcttcggctc cggctccggc tctggatcag gatctgggag tggcttccta acggaaatgg   360

aacaggatta ccaactagta gacgaaagtg atgctttcca tgacaacctt aggtctcttg   420

acaggaatct gccctcagac agccaggact tgggtcaaca tggattagaa gaggatttta   480

tgttataaaa gaggattttc ccaccttgac accaggcaat gtagttagca tattttatgt   540

accatggnta tatgattaat cttgggacaa agaatttat agaaatttt aaacatctga   600

aaa   603

<210> 335
<211> 71
<212> DNA
<213> Homo sapiens

<400> 335
atttatctaa tatttggttt aataaaatgt gaataatgaa aaaaaaaaa aaaaaaaaa   60

aaaaaaaaaa a   71

<210> 336
<211> 622
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (617)..(617)
<223> n is a, c, g, or t

<400> 336
ttttttttta tttttgaga atggagtctt gctctgccgt ccaggctaga gttcagtggt   60

gcgatctcag ctcactgcca cctcacctcc taggttccag agattcttgt gcttcagcct   120

cctcagtagt tgagaataca ggaacacgcc accacgccta gctaattttt gtatttttag   180

tagagatggg gtttcaccat gttggccagg ctggtctcaa actcctggcc taagtgaccc   240

acctgcctca gcctcccaaa gtgctgggat tataggcgtg agtcattgtc cccagccgga   300

tgttttcatc ttgatttgcc ttagtttcta aatctcatcc tctccatttt ctcctgttag   360

tagtcacaga gaaccaaatt ctgtcaagtt atgaaactaa agtctctctt ccacaagtct   420

tcctgtgttc tgcctcaagt gaacttgaaa gaacatcagt ttgtgggaag gttgaagacc   480

gaatgatctg ctgggaaatc actgaggcat tgccattctc ttgaggaatt tcattttcat   540

cgaagtttcg gtttatatcc ctttcttggt gagtactatt gctgttatgt aaattaaatg   600

                                                                        622
agtcgtcatc cttcttntga gc

<210>   337
<211>   501
<212>   DNA
<213>   Homo sapiens

<400>   337
gtgaaatcac tttcatggat tattaatgga tttaagaggg catcaatcag ctcaactcaa   60

gatttcataa tcatttttag tatttagatt gtgcctcaaa gttgtagtac ctcacaatac   120

ctccactggt ttcctgttgt aaaaaccttc agtgagtttg accattgtgc tcttggctct   180

tgggctggag taccgtggtg agggagtaaa cactagaagt ctttagtaca aaactgctct   240

agggacacct ggtgattcct acacaagtga tgtttatatt tctcataaag agtcttccct   300

atcccaaggt cttcatgatg ccagtagcca tatatgataa attatgttca gtgataactt   360

agttatcaga aatcagctca gtggtcttcc ccgccatgat tcacatttga tgagttttta   420

aaaatcaaag tgattttgaa aatctctaat ggctcagaaa ataaaaacat ccagtttgtg   480

                                                                        501
gatgactata tttagatttc t

<210>   338
<211>   630
<212>   DNA

<213> Homo sapiens

<400> 338
ttgtgttttt aggactcctt atctaaatta aggcagagaa gttacagtat ttatatctgc   60

attaaatctc aattccagaa aaaccttttg aaaaattatt taatcctctg gaaactattg   120

atatgataca ggagaaattt tcagaagttt attgaataat ttaatatcat ttaataggac   180

actctggctt gtatataagc agatacgtta ctcagacttc ttggctgtac tctaaaataa   240

tatatgtact agtctcctaa atattactag ctcacctttc aaaatgcata ctaatatttc   300

aatgtctttc ttcaatttga aaagctcttg aatatctact tgtgatagcc ctaagagctg   360

agataattat ttccaggagg ttgaatccct gattcttaac tgttcagcaa tgcataagca   420

agagagaata tgacataaga ggaccatttc tacattagcc attttttttc acaagatacc   480

tatgtgaata cagggcacct gggagggtaa gtggaggact atttctaact atatttataa   540

gcacatactg atattggtga atcaaaacct acagcagtgc ttctcagatg ggaagggaga   600
                                                                          630
caatgtgtaa ggagatcagg aattcattag

<210> 339
<211> 122
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<400> 339
ccanaatcca ctctccagtc tccctcccct gactccctct gctgtcctcc cctctcacga   60

gaataaagtg tcaagcaaga aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa   120
                                                                          122
aa

<210> 340
<211> 640
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (110)..(110)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (131)..(131)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (232)..(232)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (316)..(316)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (330)..(330)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (364)..(364)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (379)..(379)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (612)..(612)
<223> n is a, c, g, or t

<400> 340
tttttttttt tttttttttc agagtcacag atattgtata gctgaggtaa gcattttaca   60

acttttcaga cacaagtaag tacataaata ttattttaca accaacaatn tttaatattt   120

ccacattgaa naatagatgt gataattaaa tcttttataa ggttttaaaa agacatgaaa   180

cataaaccta attatacata aaagaaaaga attttaaaca agagcttatt gngatgacat   240

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tactcataac ttttacctttt aaaaccttttt cttgggtagc tattcaaaag taaagaccac      300

aagttttgtt gcccanattt cttatgtttn gtatatttaa gctctttatt tattgaacag      360

atgngtcatt aattcattng gagcattact attatcagta aaatttgatt tttttttccc      420

ctcagtcata ggtaaatcag ctccacctgg aatttctaag acccagttt tagtcaatat       480

tttcaagtaa tcatgacctc agaaatagtc ttaattaaga taacaaatat tagccatcaa      540

aatggaacca agacaagatt ctaatgtttg taaacagtca atccatattt atgaatatta      600

gcatatattg gngaatagtt aaggcaaaag ggtctagcag                            640
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<210> 341
<211> 667
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (505)..(505)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (557)..(557)
<223> n is a, c, g, or t

<400> 341
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ttgtgttttt aggactcctt atctaaatta aggcagagaa gttacagtat ttatatctgc      60

attaaatctc aattccagaa aaaccttttg aaaaattatt taatcctctg gaaactattg      120

atatgataca ggagaaattt tcagaagttt attgaataat ttaatatcat ttaataggac      180

actctggctt gtatataagc agatacgtta ctcagacttc ttggctgtac tctaaaataa      240

tatatgtact agtctcctaa atattactag ctcacctttc aaaatgcata ctaatatttc      300

aatgtctttc ttcaatttga aaagctcttg aatatctact tgtgatagcc ctaagagctg      360

agataattat ttccaggagg ttgaatccct gattcttaac tgttcagcaa tgcataagca      420

agagagaata tgacataaga ggaccatttc tacattagcc attttttttc acaagatacc      480

tatgtgaata cagggcacct ggganggtaa gtggaggact atttctaact atatttataa      540
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gcacatactg atattgntga atcaaaacct acagcagtgc ttctcagatg ggaagggaga   600

caatgtgtaa ggagatcagg aattcattag tcacctttca gatggtttaa tgcatacagc   660

tgtaccg   667

<210> 342
<211> 591
<212> DNA
<213> Homo sapiens

<400> 342
ggagtttgag cagatccttc aggagcggaa tgaactcaaa gccaaagtgt tcctgctcaa   60

ggaggaactg gcctacttcc agcgggagct gctcacagac caccgggtcc ccggccttct   120

gctcgaggcc atgaaggtgg ctgtccggaa gcagcggaag aagatcaagg ccaagatgtt   180

agggacacca gaggaagcag agagcagtga ggatgaggct ggcccatgga tcctgctctc   240

cgatgacaag ggagaccatc ccccacccc ggagtccaaa atacagagtt tctttggcct   300

atggtatcgg ggtaaagctg aatcctctga ggatgagacc agcagccctg cacccagcaa   360

gctaggggga gaagaggagg cccaaccaca gtctccagct cctgatccgc cctgttctgc   420

cctccacgaa caccttgtc tggggggcctc agccgcccca gaggcctgac ttaggggtct   480

ggctgtggaa ggatgtgtgg cctcaaatga ggacagggct cccgccttca cagccctcgc   540

caggggtctg ccccaatcct ggcctgcatc aggcaaggac ggggtctcag c   591

<210> 343
<211> 642
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (441)..(441)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (622)..(622)
<223> n is a, c, g, or t

<400> 343
gcaagtcttc agtatgtaca tttatcccct agaagaagaa aaattagttg tgcatgaaaa   60

agaaacatta actgcaaagc taaatgctca cactctaaat cagtgctctc caaagtacag   120

caggcgggaa aagaaaatgg tagatttttt tcttccaatt actttaactt attctttta   180

atggacactt catacataaa tatattcaca atatattaat atatacataa tgtataagca   240

tacatattga atgtgcagtc aaaaaatgta ctaatggaat gctctaccaa aacaagttca   300

cgttcatctg taaaatggga ataatatttt taaaaggcat acagtctgaa cattttttaga   360

ttattcataa aatctattca gaaagttaaa ctaaaaaatt taacgtatgc ctataacaaa   420

ttttgtactt aatgtaattg nttttcatcc tgagatctaa tatcctcgtt tttaagtaga   480

gccacttgtt tgctacagtt tagtcaaaac gttaacatta gatgggtaaa gtaatatgaa   540

atctttctac tactccaaaa tagaaaacag aacattaaaa agataaaaat tcaaacatac   600

                                                                         642
ttaccagtag attttcaact gngcaaaagc tcattgcatg gg

<210> 344
<211> 661
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (55)..(55)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (587)..(587)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (590)..(590)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (600)..(600)
<223> n is a, c, g, or t

<400> 344
gttttccacc gtgaagagaa catttcctct gggaatgaca aagccctcag gaacngcttt   60

tatttctatt ggaagatgcc catcatactt ctggcaggat aaaatgataa atttatttat   120

tcaacagatg atactcaatt ccctgctgtt ttactaaagg ttctttacgt tttatagaag   180

ctaaatttac tgtcatagaa attgcaattg tagatgttac tgtaatctag tcagaatatc   240

cttatccttc taaaataaaa ctagttaaaa ttattaacat acgtactgat attaattttt   300

aagtttaatg ctgccacgtg cttctgctaa gaacatttat cactacaagt ggcagaaaat   360

tccaaactca tcaaaaccaa actgttgctt cttccctgct ttttcagaaa atgagaaagg   420

atgactttat tccaacatat tctaaaagta ttccaagaac actacctttta ttctaaattc   480

gttattttca caaataaag gctgcagatt gaaagataaa ggattgctat taaagaacaa   540

aagaaaacaa aaccgagaga gaaggagagc tagggaaatc cctgcanaan aaccgaatan   600

ggtccctcta ttctgggccg gggcctgaaa ctatgaaaca ggccaacaca gaatcttggc   660

a   661

<210> 345
<211> 661
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (142)..(142)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (290)..(290)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (571)..(571)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (600)..(600)

<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (628)..(628)
<223> n is a, c, g, or t

<400> 345
cctctgactc gctcagctca cccacgctgc tggccctgtg aggggggcagg gaaggggagg   60

cagccggcac ccacaagtgc cactgcccga gctggtgcat tacagagagg agaaacacat   120

cttccctaga gggttcctgt anacctaggg aggaccttat ctgtgcgtga aacacaccag   180

gctgtgggcc tcaaggactt gaaagcatcc atgtgtggac tcaagtcctt acctcttccg   240

gagatgtagc aaaacgcatg gagtgtgtat tgttcccagt gacacttcan agagctggta   300

gttagtagca tgttgagcca ggcctgggtc tgtgtctctt ttctctttct ccttagtctt   360

ctcatagcat taactaatct attgggttca ttattggaat taacctggtg ctggatattt   420

tcaaattgta tctagtgcag ctgattttaa caataactac tgtgttcctg gcaatagtgt   480

gttctgatta gaaatgacca atattatact aagaaagat acgactttat tttctggtag   540

atagaaataa atagctatat ccatgtactg nagttttct tcaacatcaa tggtcattgn   600

aatgttactg atcatgcatt ggtgaggngg tctgaatgtt ctgacattaa caattttcca   660

t   661

<210> 346
<211> 115
<212> DNA
<213> Homo sapiens

<400> 346
aaacttttgt ggcaacagtg cactaatttg gataatgttt gttcccaata aattaagagc   60

caaattgtaa aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa   115

<210> 347
<211> 634
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (593)..(593)
<223> n is a, c, g, or t

<400> 347
gccaggcttt gtgaattaca ggacatttga dacaatcgtg aaacagcaaa tcaaggcact   60

ggaagagccg gctgtggata tgctacacac cgtgacggat atggtccggc ttgctttcac   120

agatgtttcg ataaaaaatt ttgaagagtt ttttaacctc cacagaaccg ccaagtccaa   180

aattgaagac attagagcag aacaagagag agaaggtgag aagctgatcc gcctccactt   240

ccagatggaa cagattgtct actgccagga ccaggtatac aggggtgcat tgcagaaggt   300

cagagagaag gagctggaag aagaaaagaa gaagaaatcc tgggattttg gggctttcca   360

atccagctcg gcaacagact cttccatgga ggagatcttt cagcacctga tggcctatca   420

ccaggaggcc agcaagcgca tctccagcca catccctttg atcatccagt tcttcatgct   480

ccagacgtac ggccagcagc ttcaaaaggc catgctgcag ctcctgcagg gacaaggaca   540

cctacagctg gctcctgaag gagcggagcg acaccagcga caagcggaag ttnctgaagg   600

agcggcttgc acggctgacg caggctcggc gccg   634

<210> 348
<211> 528
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (362)..(362)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (472)..(472)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (525)..(525)
<223> n is a, c, g, or t

<400> 348
gttgccgggt cctgtgataa ctctgtttaa cattttgagg aactgttgaa tggtttttca   60

cagcagctgc ctcatttttt attcccatca gcagtacttc ttggttctaa tacctccacg   120

ttctcgccaa cacttgttgt tgtctgtaat ttcgttgtta gccatcccag tggggatgaa   180

gtagtatctt actgtggttt tcagttgcgt ttccctgata attaatgatg gtgaacatct   240

tttcatgttc ttgttggcca tttgtatgtc ttcttgggaa aaaaaaaatg tctgttcaaa   300

tcctttacaa agtatttatt ttttatgtca acaatataac cactcagtac actgcttttt   360

anacaatgat cttttaaagg tttgtttaca acatttagca cttgaaattt taaggttatg   420

ccctcaaaaa aattgctgag ggagctaagc tatgaagatg caaaggcata anaattatac   480

aatggacttt gggggaatcc agggaaaggg tgggaggggg gtgangga   528

<210> 349
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (54)..(54)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (423)..(423)
<223> n is a, c, g, or t

<400> 349
tcgactctga ttttttttc tccttcctcg cagccgcgcc agggagctcg cggngcgcgg   60

cccctgtcct ccggcccgag atgaatcctg cggcagaagc cgagttcaac atcctcctgg   120

ccaccgactc ctacaaggtt actcactata aacaatatcc acccaacaca agcaaagttt   180

attcctactt tgaatgccgt gaaaagaaga cagaaaactc caattaagg aaggtgaaat   240

atgaggaaac agtattttat gggttgcagt acattcttaa taagtactta aaaggtaaag   300

tagtaaccaa agagaaaatc caggaagcca aagatgtcta caagaacat ttccaagatg   360

atgtctttaa tgaaaaggga tggaactaca ttcttgagaa gtatgatggg catcttccaa   420

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tanaaataaa agctgttcct gagggctttg tcattcccag aggaaatgtt ctcttcacgg      480

tggaaaacac agatccagag tgttactggc ttacaaattg gattgagact attcttgttc      540

                                                                        573
agtcctggta tccaatcaca gtggccacaa att
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<210> 350
<211> 659
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (216)..(216)
<223> n is a, c, g, or t

<400> 350
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tcatttacat taatactcaa aactgctcga ttaagcaggt gctgttctta tcgccatttt       60

gcatatgatg agaaagggta aggtcaccca gctagtattt ggctcacagc aggccttaag      120

acttggtttg tgtgactcat cagtccacgc tcctaaaacc actaagttgt tctacccttt      180

aatgttgaat taacattgga tagtgttcaa gtttanatgg gtgggtgagg gcccaaggac      240

ctttcaaact cagatctctt atttaataac ctggtcccag atccattcct ctgtcgaaga      300

ggaagtcatc cttcagtggc tattcattgt ggggttaaga gcgcagacta tgaattcagt      360

ctttttgggt cccagtttgc cagaccttga gtgagtgccc cgagtttact tacttgtaaa      420

ggtaggtgga ggtaatataa ttaaataaac ttaaaaaact aattaaaaac aaaacaaatg      480

aactaaggtc ttaggatatc tggcgtctat tttgcgccaa atcacataat gtctattgtt      540

gtgtgttgga ctataggatt gtcctttaac agggaagggt ttatttctgt aatcaagtct      600

gtcaatatta tgaccatgtt gataatagct acctttaatt gagggcttcc atgtgccaa      659
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<210> 351
<211> 517
<212> DNA
<213> Homo sapiens

<220>
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<221> misc_feature
<222> (251)..(251)
<223> n is a, c, g, or t

<400> 351
tcagtggaaa agggcaggtt gaatcaaggt gaatcaatct gaaattgagc acacctgcct    60

gccatcgctg ttccttcaac tgagtgctgc acatcatggg ctctgtctgt gagagaaaaa    120

tcccggtgct tggtgtcctt gcatgacatg gagtttgca tgtagatcaa tttaaaatgt    180

acctcttgtt tacataattt gcataatttt aaaagataat gttgccaaac tttggaaatg    240

ttaatgttca nactgaaaat ctccactaca tgtaactttc ttcctctgga tcagtggcat    300

ggcttataat cccagccagt ggtttgaact gttccagtgt caactgccat gtgctctgct    360

tcaaggggga actagccttt tgtgaatttt ttgtacataa gtatttgtta caaatatttt    420

agcaaatgct ttctatttct cttgcttgtg catatcttgg ctggcgttac agaaaaatag    480

tgtaaacatt atttccttac cggggaatga gggtttt    517


<210> 352
<211> 174
<212> DNA
<213> Homo sapiens

<400> 352
agcacctggc acagagtagt agctaacaca gatgttaatt ttgctgcgtc aaatgttttc    60

actttgaatc tctcttgagt attgttctcc ttattgatta catgatgaca tcctgttttc    120

tctccctgac ctttactgtt tgtttagaaa aaaaaaaaa aaaaaaaaa aaaa    174


<210> 353
<211> 664
<212> DNA
<213> Homo sapiens


<220>
<221> misc_feature
<222> (240)..(240)
<223> n is a, c, g, or t

<220>
<221> misc_feature

<222> (246)..(246)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (480)..(480)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (635)..(635)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (642)..(642)
<223> n is a, c, g, or t

<400> 353
cagagagctt gttccctccc tccctgtgca tgcaaacaag agggcatggg agcacacaga      60

gagatggcag ccacctacaa gccaagagga gaagcctcac aatcaaactc tcgctgctgg     120

cgagagtctt ggactctgtc ttggacttcc agcctccaga ctgtgagaaa caaatttctg     180

ttgtttcagc ttctcagtct ctggtgtttt gttattgcag cctgagaaca cagctgtacn     240

attatnaggg aaacagaaaa cactgatact taacaatgct aatgcaatta tttatttgct     300

tttcagtctc tacaaaacgt tctaaaacac taatctaaat attaacagta aaatatttgc     360

ataactaatg gaaactaaga aatcatatga ccaatatttc acttattggt aatcttactc     420

tactgatttc cccccagact gtgattttttg aacttccttg cctttctcct gtctttctgn     480

gtttattcat ggaattccag ttatctgggc ttgaaattgc aggctctcct aacttaagca     540

aaatctgaca gatcagcaaa atgagataaa tgtttctttt ttctttctga ctgcattaaa     600

tcagatacaa ctcagcatta aaaagctatc tttgnaaaat gntggtacta ataaattagt     660

                                                                     664
ctta

<210> 354
<211> 661
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (493)..(493)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (554)..(554)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (556)..(556)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (644)..(644)
<223> n is a, c, g, or t

<400>  354

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ccagttccac attcagtgaa gtcatgaact tgaaattggc catgatcaaa aagtatttaa      60

atcacagaag ttgcaaatgc cacaaatcaa ggtctttttc tcttggagaa cctgttaaac     120

atttaccaac tcacgaccgc catgcaccca atactgcaat aggtctatag atgcagatac     180

tgtctccatg aatcttatag gctagaaagg aaatagataa gtagtcctac cagaagaaca     240

tgatgaaggc atttgtggta aacagaatga tggcccccca aagatgtcca catcctaatc     300

cctgaagcct atgaatatac tactttactt ggcaaaaggg actttgccac aggttttttaa     360

ttaaggacct tgaaatagag agattatcct ggataatcca gatggcccca gtgtaatccc     420

aagggtcctc acaaagggta ggaaggagag ccagagtcag agaaggagac gtagcaatgg     480

aggcagaggt canagagaga tctgcagatg ctgctgtgtt ggctttgaaa atgaggaatg     540

caggtgacct caangngcta gatgatgcaa ggaaacaaat aatctcctat gaaccctagg     600

atgggcatta ttatgagtcc tattttataa acaaggaact gacntccaga aagataaatg     660

c                                                                     661
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<210> 355
<211> 626
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (55)..(55)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (99)..(99)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (116)..(116)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (219)..(219)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (444)..(444)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (457)..(457)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (564)..(564)
<223> n is a, c, g, or t

<400> 355
ggcagaggtt gcagtgaact gagatcatgc cattgcaatc cagcctgggc aacangagtg   60

agactccatc tcaaaaaaaa aaaaaaaaag acaagagtnt ccactctaaa cacttntatt   120

caacatagtc ctgaaagtcg tagccacagc aatttaacaa gataaagcaa taaaatgtat   180

tcaaatagaa aaagaggaag tcaaattatc ttcactggng atataattct ctacctggga   240

aacttcaccg aaaaagattt caccaaaaga tttctaagcc taaataatga cttcagcaaa   300

gtctcaccat acaaaatcaa catacacaaa tgagtagcat ttctgtgcac caataatatt   360

caagctgaga aaaaagaac atggttctat ttacaatagc tacaaacaaa aaaatatgta   420

cctagtaata cattaaatca aggnggtaaa atatctntac aacaagaact acaaaactgc   480

tgaaaaaaaa tagagacacg caaataagta aaaggcact ccatgctcat gaatttaaag   540

aatcaatata attaaaatgt ccgngctgcc taaagcaact tacagattaa aggctatttc   600

                                                                     626
tctcaaacta taaatgcacc ttttta

<210> 356
<211> 585
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (317)..(317)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (321)..(321)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (406)..(406)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (543)..(543)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (569)..(569)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (571)..(571)
<223> n is a, c, g, or t

<400> 356
gtcattgctg ggtggcgcca gccctcagac ttgcctctttt gcagtaggaa gaaggcctcc   60

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ccacatacct  tcccacactc  atcaccttaa  gccagactcg  gtgtccagtg  aatatgacca      120

tctcttgccc  attttctaat  gagtgttttc  attaatgagt  tataagaatg  tggtgggtaa      180

atctatgggc  tttgaactag  tgaatcaact  tggtttcaga  atctggcact  gctacttact      240

agtgaattta  agcaagttat  ttcacctttc  agagtgtcag  ttccctcatg  catacaagga      300

agataaaaaa  taatgtntac  naaagtattg  gagtaattaa  tacatggaga  actacatgta      360

aagcgtttag  catgatgtct  gacatattaa  gcatccaata  ttagtngctt  gcagaattat      420

tagtaaaaga  gattgcttct  gaaagccatt  ccaattctta  aattttataa  tgccacattt      480

gaggtcacct  gaagtcgtgt  ataacatgtg  tacatttttg  cgatttattt  tttcaattcc      540

canattaaag  gcatagagat  atcctagcna  nggactccaa  gtgtg                        585
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gtaattgcag  cctgggcaac  ggagtgagag  actgtctcag  gaaaaaaaaa  agaaaaaaaa       60

ctactgaggt  agttgaatat  atcctccatt  ccccatttgt  ggattagtta  gtaaatgggg      120

catcttaggg  tttaaatatg  tccagggtca  ctgaggatca  gatcctaggg  ttcctttgac      180

tcaaggcttt  tgtctcagca  aaacgtcacc  ttccagcagg  aaggctttct  caggcaagta      240

gcagggtggc  tactatgtat  cgcttcttta  ttttttcttt  tttaaaataa  tgcaggcacc      300

gtgcgcataa  tttaaaaaat  cagtgctaaa  acccttaaaa  aaaaaaagct  gttctcatct      360

cctgtctttc  tttttttttt  ctttttattt  ttttctttta  ttattattat  actttaagtt      420

ttagggtaca  tgtgcacaac  gtgcaggttt  gttacatatg  tatacatgtg  ccatgtnggt      480

gagctgcacc  cattaactcg  tcatttagca  ttaggtatat  ctcctaatgc  tatccctccc      540

ccctcccccc  tttttttttt                                                      560
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<210>  358
<211>  645
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (76)..(76)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (86)..(86)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (141)..(141)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (213)..(213)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (237)..(237)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (286)..(286)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (309)..(309)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (345)..(345)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
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<222> (629)..(629)
<223> n is a, c, g, or t

<400> 358
gggaatgtct taggcactgg gactgtaagt gcaaagaccc tgtggcacaa gggaatgtta   60

attatctacc tttcanaaac tggaanaagg cctagcctag agcattgaaa acaataaggg   120

aaaggaggag taaggctgga nagataggaa tggtttaaag tctttgttaa aaattttttt   180

aaaaaaatct ttatcacaag aagaggattg gcntgatcaa atttgacttt taaaaanatt   240

acttgggttg ggcatgatca aatactactt agggagatta gtttanatga taatggcatt   300

ctggaccana gtggagtcag aggtgaaaag aggtagatat tccanaattg agggatttgt   360

gaggtgaaat catttgttac agatattaaa ggataaggag ctttgtcaaa ggggatctta   420

agtttctggt atggtaactg ggttagagag ccctggaaca tgaccagctt taagggaaga   480

gagcttgagc tctgttcttg ttaagctcag tttgagatct ttgtggaatc aagtggagag   540

gtctaagcag ggaactggct tggctaggct gtaaagatga atctgagagt cccaagaata   600

tggtaattat taataaaagc cttaggtana tgaaattgtt ttggg   645

<210> 359
<211> 509
<212> DNA
<213> Homo sapiens

<400> 359
gcaaatctac acatttgatt aaatgatagg gaactatgca cacacataat acatataatg   60

ctagtttctt ggttttgata ttgtaccata gttatgtaag atgtaaccat tgggggaaac   120

tgggtgaagg ctacatgaga cctctctgta cttaatcttt gcaacttatg tgaatctata   180

attattccaa aataaaaagt tttaaagaac ctaagtatcc ttattactga gggtcatcgt   240

gctagacagc aaggttgggc cagagcttct agttatttaa aatactaaat accagcctgg   300

gcaacatagc aagaccctgc ctctacaaaa agcaaaaaaa ttagctgggc atggtggtac   360

atgcctgtgg tcctagttac tcttggagga gtctgaggtg gggagcttga gcctaggagt   420

ttgaggccgc agtgagcctt gattgtgtct ctgtactcca gtctgggcca cagagcaaga   480

cccggtctct aaaaataaat aaataaata   509

<210> 360
<211> 511
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (37)..(37)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (149)..(149)
<223> n is a, c, g, or t

<400> 360

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antgcactcc agcttggtga cagagggaga ctccatntta aaaaaaaaaa aaaaaaaaaa        60

aaagggagta gcttgaagcc acatagtagt tagtggtaaa ggccacccct tttcccacaa       120

ctcacaccag caccacaagc tagcctttnt aatttccaag ccagtgccct ttcaacgcac       180

acacccctgt gtcagttccc tttctgctgc aagctctctg gaggcagata ctgttgagtc       240

cctggcctgc ctatgagaac ggctcatgat ctctatttct tctgcttaat gaccatctcg       300

aagtaacaag tttagcctaa aataaacttg ctaagttagc aaaggaagtc cttagcagcc       360

accatttctc gattcctcca tcacctcccc tgcccctcaa ctccctcatt tctcccaaga       420

tatgggctcc aggctgggcg cggtggctca cgcctataat cctagcactt tgggaggctg       480

aggtgagcag atcactgagg tcaggagttc g                                      511
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<210> 361
<211> 16
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t

<400> 361
tcnttcggaa cgcgcc   16

<210> 362
<211> 579
<212> DNA
<213> Homo sapiens

<400> 362
ctggagggat gggtaggatt ttgacaagag tggttgaagg tattctaatt cacttagtac   60

ctacatgtgc gaggcagcat gaaggcaaaa aagcctgggg catgttcaga gaatagcaag   120

tattctagtt tgagtggcac ctggtacgta tataagggaa tagtaaaaga tctggctgga   180

aaggaaaagt aggggcaggt tacgaaggac ctctgaaagt cagactgtgg aactggaact   240

tttatcagga agcagtagtt agttttttca agcaaaagct aattagagtt gatatttagg   300

aggatgaatc taacagttgt gtgcaaggat gccttcaaac tgagtgagac tagtactgga   360

gactggttaa gagactacaa caataacctg agtaagaatt aatacaggcc tgacctagtt   420

ttgagtgagt aggattggaa acaagagttt taggtattat aggatttatg catataaaat   480

ggacttgaca gaacttgaag aaagagaaag tgtcaaaagg acacagaaag tgaggcagga   540

tatcttacaa tgttaaagga aaggaataat agaagttac   579

<210> 363
<211> 185
<212> DNA
<213> Homo sapiens

<400> 363
ggaaacataa gcttgtttca gtacactcac gctgtagatt aattctgata ttacatatct   60

ccatcagact ttgtaccctc tctcttccat cccttaccct taccgattag gttggtatta   120

cctaaaaatc catagaaaat gtccaggtga attgccttat gctttctacc ccataaggta   180

taatt   185

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<210>  364
<211>  649
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (649)..(649)
<223>  n is a, c, g, or t

<400>  364
ctctgtggtg tgagaacaca gtgggtgacc aaggctttcc agatgaaccc aaggaaagtg        60

aaaaagctga tgctaataac cagacaacag aacctcagct taagaaaggc agccaagtgg       120

aggcactctt cagttatgag gctacccaac cagaggacct ggagtttcag gaaggggata       180

taatcctggt gttatcaaag gtgaatgaag aatggctgga aggggagtgc aaagggaagg       240

tgggcatttt ccccaaagtt tttgttgaag actgcgcaac tacagatttg gaaagcactc       300

ggagagaagt ctaggatgtt tcacaaacta caaagctgaa gaaaatgaag ccctattact       360

tgtttgtaag atttagcacc cttctgctgt atactgtact gagacattac agtttggaag       420

tgttaactat ttattccctg ttaaaattta acctactaga caatgatgtg agtacccagg       480

atgatttcct ggggcacagt gggtgaggag atggggacag gtgaatggag gagttagggg       540

agaggaaaag tggatggaag tgtctggaaa gggcaccaaa aaagtcttcc aggtctgatc       600

ctgtttcttg ctctgagtgc tagctaccac tgtgtcacac tgtaacatn                   649


<210>  365
<211>  655
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (607)..(607)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (644)..(644)
<223>  n is a, c, g, or t
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<400> 365

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ctcagctctt gcctggtcac cttgtggctt ttaccatcct catcccctgt gccacccaca      60

tcctgccact ctgcatgga gttggggtgg ggccattgga gaaaagaggt taaacaagca     120

gtaatttact tgagtacagt ctttgagcca atgaaatgcc agtcatcatt tcccagggggt    180

acttgtcatc ttgtcaacaa cccgctgata atgctccttc aatgtgaata gcaaaagtag    240

ggagagacgc tgaatgaaga agatgcctac ccctcaggaa gactgctgtc cgcctccagg    300

cctgcatgca cacacccatg cccacctgca cccccagcac cacgcccaca ctcactcgca    360

cacacccaca tgccagtgtt ttggggttgg cagcctggac actgctgagg caaacacaag    420

tcatcaagca taattctcat tctctccttc tgtctctgtt ttagttacag gaatttggtc    480

agtttagagg atttaataag tccgtggaaa atttgtttct gtctcttgct acccacgtga    540

aaagtaagtg catgcttcat gatgtgtttt cccactacct tccaggccag ccgagcccac    600

tggccanggc ctggcccggt gacctcggtt gacactgtcc tcangccact cactt          655
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<210> 366
<211> 334
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (254)..(254)
<223> n is a, c, g, or t

<400> 366

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cagaatttca tgtttatgct gcacaaggcc tgtattttat aatggtggct cttttggacg      60

atgacttcct cgatggtgaa acttccagta atctccctca tcatactgaa atgatatcag     120

tatatcatca gaacaccatg gagcttgtca tttgagggac acagcttgct tgtgtgcttg    180

ggaaagaaga ggtttagcat ggtttcaggt cagtgatgag tccaatgatc tctgcaagtt    240

cccttagctc tganaattct gatgtcatat gcacttctgc cgccagagtt gctgcttact    300

ggatgcgtaa gaagaaaaga aaaaaaaaaa aaaa                                 334
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<210> 367
<211> 582
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (506)..(506)
<223> n is a, c, g, or t

<400> 367
cttccattgg gggtaaagat caaactttag gcgagccagg tctgtatctc cattcctgtc   60

tctgactgct tccctgtagg gattgtctgc aagcgcacac ctgcattttc ttgtccacaa   120

gtctatgctc taactctgtc acctgcatgg ctgcaaatta gcttccttct tcctgccctc   180

ttctctctag cttggatttt gaatttgaat ggcaggcatg ggatgtccgt gtgtgtgtac   240

tgctgatgtg tacagccgct tgttagcgct ctcattgtct tcaaatgtaa gtcattttgg   300

ctgggtgcgg tggctcatgc gtataatccc acgctttggg aggctgaggt gagctgatca   360

tttgaggtta ggagttcgag accagcctgg ccaacatggc aaaactccat ctctaccaaa   420

aatacaaaaa ttagctgggt atggtagtgc acgcctgtaa tcccagctac ttggaatgct   480

gaagcaggag aattgcctga acccangagg cggaggttgc ggtgagccaa gatcacgcca   540

ctgcactcca acctgggtga cagagcaagg ctgtgtctca aa   582

<210> 368
<211> 530
<212> DNA
<213> Homo sapiens

<400> 368
acctgacttc aaactatact acgaggctac agtaatcaaa acagcatggt actagtacaa   60

aaacagacca atggaacaga atagagatct cagaaataaa actgcacatc tacaaccatc   120

tgatcttcaa caaacctgac aaaacgagca atggggaaag gattccctat ttaataaatg   180

gtgctgggag aactggctag ccatgtgcag aaaattgaaa ctggacccct tccttacacc   240

ttatacaaaa attaactcaa gatggattaa agacttaaat gtagaaccca aaacgataaa   300

aaccctagaa gaaaatctag gcaatatcat taaggacata gacatgggca aaaatttcat   360

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gatgaaaaca tcaaaagcaa tggcaacaaa agcagaaact gacaaatggg cttctgcaca      420

gcaaaagaaa ctatcgtcag agtgaacaga caacctacag aatgggagac agtttttgca      480

atctatccat ctgacaaaag tctaatatcc agaatctaca aggaatttaa                 530


<210>  369
<211>  653
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (596)..(596)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (621)..(621)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (634)..(634)
<223>  n is a, c, g, or t

<400>  369
caaaaaacaa gaattacccg ggcttggtgg tgcatgtctg tagtcctatc tactcaggag       60

gctgaggctg aaggatcact tgagcccagg agtttgaggc tgcagtgagt gagccatgat      120

catgccagtg tactccagcc ttggcagact gagcaaaact tggtccctcg caaaatgttg      180

aagcccagtt ttcactatta acctgtattt cagtttcccc atgctaactt tgaaacactg      240

gggctggcct gagggtataa aggcttattc aaactcagta atttaaactt aaaatcctaa      300

ggaacttcaa aaagtgtaat ctagtccaaa tggggcatca attctaaagc atttgcttgt      360

ttgagcagat tttctgtgtc tgaggtatat agataactta tcttttatg actaaatcca      420

agtccttagt tcctgttgga attcaaaatc atatttaaaa attgatgctt tgttctataa      480

ttaatgcttt gattgtataa ataataagta ttcttccaaa tcccttttta cagatgatga      540

ttctgatacc gagacgtcaa atgacttgcc aaaatttgca gatggaatca aggccngaaa      600
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cagaaatcag aactacctgg ntcccagtcc tgtncttaaa attctaactc gac   653

<210> 370
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<213> Homo sapiens

<220>
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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<222> (196)..(196)
<223> n is a, c, g, or t

<220>
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<222> (544)..(544)
<223> n is a, c, g, or t

<400> 370
gagggtgtag aagagaagaa gaaggaggtt cctgctgtgc canaaaccct taagaaaaag   60

cgaaggaatt tcgcagagct gaagatcaag cgcctgagaa agaagtttgc ccaaaagatg   120

cttcgaaagg caaggaggaa gcttatctat gaaaaancaa agcactatca caaggaatat   180

aggcagatgt acaaanctga aattcgaatg gcgaggatgg caagaaaagc tggcaacttc   240

tatgtacctg cagaacccaa attggcgttt gtcatcagaa tcagaggtat caatggagtg   300

agcccaaagg ttcgaaaggt gttgcagctt cttcgccttc gtcaaatctt caatggaacc   360

tttgtgaagc tcaacaaggc ttcgattaac atgctgagga ttgtagagcc atatattgca   420

tgggggtacc ccaatctgaa gtcagtaaat gaactaatct acaagcgtgg ttatggcaaa   480

atcaataaga agcgaattgc tttgacagat aacgctttga ttgctcgatc tcttggtaaa   540

tacngcatca tctgcatgga ggatttgatt catgagatct atactgttgg aaaac   595

<210> 371
<211> 651
<212> DNA
<213> Homo sapiens

<400> 371
catttccaga gtttatgtga attgaattga actatggttt tatgttactg tcagtagaat   60

gaagtacgaa tatttgaaaa atacaccttc aacttcaaag tgattcttga caaaaattat   120

aaggaatcat tttggacaca ttttctggta gagccttgta aaaattaaaa ccaagtgttg   180

ttttcaagaa gaactgtaat acataatcag gaatttgagt agggagatta ttttgttatt   240

taaaattaaa gtggctgtgt agttttaact ttagtattgc aggtagagta agcttacatg   300

ataacaaaaa tcttggtctt agtgacttaa tgattctgat atttattgat tgattggtta   360

tcattccaaa tattttaaaa gataatagct ggctgggtgc ggtggctcat gcctgtaatc   420

ccagcacttt gggaggccag gacgggcgga tcacgaggtc aggagatcaa gaccatcctg   480

gctaacacgg tgaaaccccg tctctactaa aaatcaaaaa attagccggg tgtagtggcg   540

ggcacctgta gtcccagcta ctcaggaggc tgaggcagga gaatggcatg aacctgggag   600

gcggagcttg cagtgagctg aaatcgtgcc actgcctcca cctggcgaca a   651

<210> 372
<211> 531
<212> DNA
<213> Homo sapiens

<220>
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<222> (243)..(243)
<223> n is a, c, g, or t

<400> 372
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tcaggggagg tggaggagga gggtctgcca agctactgca acatctgtca cccactatac   120

ccagttactt ggggaggac agacactgtg gtgtcattaa agttgtttga accaaagtgg   180

cggctgcatc tttgtcccga tgctagccgt gccggtctcc catcatccgc tcgccctcct   240

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ttnccctggg ctgcgcccac ttgtcttcct ggatatttgg gggtgactcg ccatgcttgg      300

caccctctgc ttcctggtgc tgctctgact cgaagacggg acagtccctg gtgcacatcc      360

agggaagagg agtgtcggta gttcttgcag taggcacttt atcaggacct gacctgttgc      420

tgggtgattt tagtctctac aaacagaaag cgtttcaaag cgtcagctgt gggagcagag      480

tgaccctttg ctgatgctgg ggggaggggga tctaaatcct catttatctc t            531


<210>  373
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<212>  DNA
<213>  Homo sapiens


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<223>  n is a, c, g, or t

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<223>  n is a, c, g, or t

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<223>  n is a, c, g, or t

<400>  373
ggcgcctgct ggaggaggag agagctctgc tggcatgagc cacagtttct tgactggagg      60

ccatcaaccc tcttggttga ggccttgttc tgagccctga catgtgcttg ggcactggtg      120

ggcctgggct tctgaggtgg cctcctgccc tgatcaggga ccctcccgc tttcctgggc      180

ctctcagttg aacaaagcag caaaacaaag gcagttttat atgaaagatt anaagcctgg      240

aataatcagg cttttaaat gatgtaattc ccactgtaat agcataggga ttttggaagc      300

agctgctggt ggcttgggac atcagtgggg ccaagggttc tctgtccctg gttcaactgt      360

gatttggctt tcccgtgtct ttcctggtga tgccttgttt ggggttctgt gggtttgggt      420

gggaagaggg ccatctgcct gaatgtaacc tgctagctct ccgaagccct gcgggcctgc      480

ttgtgtgaac cgtgtggaca gtggtggccg cgctgtgcct gctcgtgttg cctacatgtc      540
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cctggctgtt gaggcgctgc tttaacctgc acccctncct tgctcatana tgctcctttt     600

ga                                                                    602
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<210>   374
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<212>   DNA
<213>   Homo sapiens


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<223>   n is a, c, g, or t

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<223>   n is a, c, g, or t

<400>   374
tttgagacca gcctagccaa catggtgaaa ccccatctct actaaaaata caaaaattag     60

ccgggcgtgg cggcacatgc ctataatccc acttacttgg gaggctgang taggagaatc    120

gcttgaaccc ananaggcag agtttgcagt gagccgagat tgtgccattg cactccagcc    180

tgggcgacag agcgagactc catctaaaan aaaataaatg aataaaataa                230


<210>   375
<211>   483
<212>   DNA
<213>   Homo sapiens


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<223>   n is a, c, g, or t

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<222>   (199)..(199)
<223>   n is a, c, g, or t

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<223>   n is a, c, g, or t

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<223>   n is a, c, g, or t

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<223>   n is a, c, g, or t

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<223>   n is a, c, g, or t

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<223>   n is a, c, g, or t

<220>
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<223>  n is a, c, g, or t

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<223>  n is a, c, g, or t

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<223> n is a, c, g, or t

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<222> (401)..(401)
<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<222> (407)..(407)
<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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ctttccatga tatgtatttt ttatacattg ctggattta tttgctaata ttttacttag   120

gatttaattt tctaagtnga cctataattn tcctgtataa aattgcattt gtcacatttt   180

agtatcaagg ttgtcctanc nccatgaaat ggatttanaa tggtttatgt aanataaagt   240

acatttcttc taaaggtttg ngtggattaa ctttcaaatc tgccanagng ngtttttttc   300

ctttttttt tttttcatt tnaagggagn gcaagtanct tttcaaatnc tgatttaatt   360

tttaaaatat ttncaagtnt ntttanagtt tttatttntt ntngaangtt aacattttta   420

tanaaaangg tnttatcttt ttaaattctt tgacatcagt ttcttcanaa ttccttcttt   480

taa   483

<210> 376
<211> 538
<212> DNA
<213> Homo sapiens

<400> 376
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ccctcgtctt cccctccttt cccagagcca tcttcccagt ccaccatccc catcgtgggc   120

attgttgctg gcctggctgt cctagcagtt gtggtcatcg agctgtggt cgctactgtg   180

atgtgtagga ggaagagctc aggtagggaa ggggtgaggg gtggggtctg ggttttcttg   240

tcccactggg ggtttcaagc cccaggtaga agtgttccct gcctcattac tgggaagcag   300

catccacaca ggggctaacg cagcctggga ccctgtgtgc cagcacttac tcttttgtgc   360

agcacatgtg acaatgaagg acggatgtat caccttgatg gttgtggtgt tggggtcctg   420

atttcagcat tcatgagtca ggggaaggtc cctgctaagg acagaccttta ggagggcagt   480

tggtccagga cccacacttg ctttcctcgt gtttcctgat cctgccttgg gtctgtag   538

<210> 377
<211> 440
<212> DNA
<213> Homo sapiens

<400> 377
tggccatcct tttcccccca aacacacccc cttaacctat ctcttgggac ttagcccgac   60

cctccctctc atttcccatt aagtctgaga ggcaagagct aggttaggca aggaggtggt   120

tggccagaga tggggaacag ccaggtgccc cagtcctctg atttttcctc catcctgctt   180

accacctccc tgggtactta cagccttctc ttgggaacag ccggggccag gactgggtca   240

cctatgagct gaatcagcat ctcctcctga gtcccagggc ccctgcagtt cccagtctct   300

tctgtcctgc agcccttgcc tctttcccac aggttccact ttatatccac ctttttccttt   360

tgttcaattt ttatttttat tttttttatt attaaatgat gtggtctatg gaaaaaaaaa   420

taaaaatctg acttagtttt   440

<210> 378
<211> 513
<212> DNA
<213> Homo sapiens

<400> 378
ggaacccagt gtattacctg ctggaaccaa ggaaactaac aatgtaggtt actagtgaat   60

accccaatgg tttctccaat tatgcccatg ccaccaaaac aataaaacaa aattctctaa   120

cactgcaaag agtgagccat gcctgttaac actgtaaaga atgtaacatg tgggggacac   180

acaggggcag atgggatggt ttagtttagg attttattag tgcatgccct accctctggg   240

ggaacgtccc atctgaggtt ttcttctcgg tggggggatt taacttctgt cctagggaaa   300

acagtgtctg atgaggagtg tttccaacac aggctacatg aattcccta taccagtgcg   360

aaagcagcca ggagtccccg ttggaaaaga acaatgccac tctcttttat gtatcttggt   420

tctgcaactc atttgttgta agtagggtta atcgagtatc aggttcacag tatcctgccc   480

ttattatttt atgattcact gactcaagtt cca   513

<210> 379
<211> 646
<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, or t

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<222> (503)..(503)
<223> n is a, c, g, or t

<220>
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<222> (570)..(570)

<223> n is a, c, g, or t

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<222> (598)..(598)
<223> n is a, c, g, or t

<220>
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<222> (605)..(605)
<223> n is a, c, g, or t

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<222> (613)..(613)
<223> n is a, c, g, or t

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<222> (642)..(642)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (645)..(645)
<223> n is a, c, g, or t

<400> 379
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tcaatgggaa aagtttaata agaggatttg gtatcaactg gctgtccaaa gataaaaatg   120

gaccgtccta tcacatacaa aattgttttt tagataaaga tttaaataca ggcactcctt   180

catttgcgtg gtgcaccttg aggtgttgca gaaatgatga gagctgaaac tgcaaagcaa   240

ttttaatact ttatctgttg gaaatcttat agttttcctg tgaccgttaa aattttcatt   300

aaactattaa aaacacccat gactggtcac aaatgtattg ggaaatggaa aagaattaat   360

acactaaaaa tacaaaaaat agaaaatatt taaaattatc taaaaatttg aaacattaga   420

aaaattgaga actaggcagg gcgtggtggc tcacatctgt aattttagcc ctttgggagg   480

ctgangcagg tggatcacct gangtcagga gttcgagacc agcctgccaa cgtggggaaa   540

ccccgtctct actgaaaata caaaaattan ccgggcatgg tggcacaagc ctgtaatnct   600

tgctnaccag gangctgagg caggagaatc acttgaaccc angang   646

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<210>  380
<211>  362
<212>  DNA
<213>  Homo sapiens


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<223>  n is a, c, g, or t

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<223>  n is a, c, g, or t

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<223>  n is a, c, g, or t

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<223>  n is a, c, g, or t

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<223>  n is a, c, g, or t

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<223>  n is a, c, g, or t

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<223>  n is a, c, g, or t

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<223>  n is a, c, g, or t

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<223>  n is a, c, g, or t

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<223>  n is a, c, g, or t

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taccactaag gccctgcccc agctttatca cctgagcact aacaagtgct gtgtggagtt     120

cagtccatgc tggtaactnt tgagtattca gtgggtcttt taacaattac caccgtggag     180

gananagcaa ggaagagaaa tgctgtgatc ttttnctgtt tttaattagn gaaagaggga     240

ttanattaaa caaatgttac agagntgtga ctntgatccc ccagnggtaa gcaataattg     300

tanagactgg atttnanaag ccctgagagt ttattttcaa cctatntatt atagnncaat     360

cc                                                                   362


<210>  381
<211>  80
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<212> DNA
<213> Homo sapiens

<400> 381
acaaggcttg ggggctggac tccctctact gcctctggcc ataccccctc ctggagatgg   60

ggtcaaggca ccaggactga   80

<210> 382
<211> 435
<212> DNA
<213> Homo sapiens

<400> 382
tcgcttgtaa agcctgagac agctgcctgt gtgggactga gatgcaggat ttcttcacac   60

ctctcctttg tgacttcaag agcctctggc atctctttct gcaaaggcat ctgaatgtgt   120

ctgcgttcct gttagcataa tgtgaggagg tggagagaca gcccaccccc gtgtccaccg   180

tgacccctgt ccccacactg acctgtgttc cctccccgat catctttcct gttccagaga   240

agtgggctgg atgtctccat ctctgtctca acttcatggt gcgctgagct gcaacttctt   300

acttccctaa tgaagttaag aacctgaata taaatttgtt ttctcaaata tttgctatga   360

agggttgatg gattaattaa ataagtcaat tcctggaagt tgagagagca aataaagacc   420

tgagaacctt ccaga   435

<210> 383
<211> 571
<212> DNA
<213> Homo sapiens

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<222> (104)..(104)
<223> n is a, c, g, or t

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<222> (131)..(131)
<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<222> (281)..(281)
<223> n is a, c, g, or t

<220>
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<222> (483)..(483)
<223> n is a, c, g, or t

<220>
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<222> (571)..(571)
<223> n is a, c, g, or t

<400> 383
ngatatagtn ccgcatggga aagatganca ggtataaccn agcntnatat agcaaggact   60

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aaccccccctg ccttctgcat aatgaattaa ctagaaataa cttngcaagg agagccaaag      120

ctaagacccc ngaaaccaga cgagctacct aagaacagnt aaaagagcac acccgtctat      180

gtagcaaaat agtgggaaga tttataggta gaggcgacaa acctaccgag cctggtgata      240

gctggttgtc caagatagaa tcttagttca actttaaatt ngcccacaga accctctaaa      300

tccccttgta aatttaactg ttagtccaaa gaggaacagc tctttggaca ctaggaaaaa      360

accttgtaga gagagtaaaa aatttaacac ccatagtagg cctaaaagca gccaccaatt      420

aagaaagcgt tcaagctcaa cacccactac ctaaaaaatc ccaaacatat aactgaactc      480

ctnacaccca attggaccaa tctatcaccc tatagaagaa ctaatgttag tataagtaac      540

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atgaaaacat tctcctccgc ataagcctgc n
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<210> 384
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<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<222> (593)..(593)
<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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gcgaaactct gtctcaaaaa aaaaaaaaaa aaaaatttgt tgactgttgt aatttaaagc   120

ttgtcatttt ttatttagta ataacactca ttagtgtagt atctatgatg aaccaggttc   180

tgcacaaagt accttatgtt catggcctca tatcgtcttc tccaaaactc tgcaagatag   240

gattcatcac cacttatagg gagagatctg aaagtttaaa attgtaccca aggtcacaca   300

gctggtaagt gccagagctg ggattccgta gggtgttcan agtgcctctc ctgccgtagg   360

cttatcacaa aaagtcaaag tttggtcata ataaagcctg aagtttggca ggatttaaaa   420

atagtcacca nactttgag ttggagcatc ccacctcact gctgttcacc ttctgtggca   480

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gcccgcaaat cgaccggtgg taaagcaccc aggaagcaac tggctacaaa agccgctcgc   180

aagagtgcgc cctctactgg aggggtgaag aaacctcatc gttacaggcc tggtactgtg   240

gcgctccgtg aaattagacg ttatcagaag tccactgaac ttctgattcg caaacttccc   300

ttccagcgtc tggtgcgaga aattgctcag gactttaaaa cagatctgcg cttccagagc   360

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tgtctgctag atcatggttt gtattgaact aacaaggttt gcagatctgc tgacttatat   240

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nnttccttnn ccctnaanct accttccccc nattttctcc cctnttcntn aattancatc   180

ctctccncnt anntcnanac nttaatggca anactatcta atancnanna taananctcc   240

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cnncnnaant tcatatcgtg nnctntnnnc nntngcgcga natattaann anaccngtan   360

ntnnnanaca nnanntnngn aanaancctt ctnanntttt agcntcnngc nntaacnnnn   420

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cttnaatgnn ttcccatgna ttaantncct cgnnnanagc actatcgtnn nngagnnnat   540

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ctgagctgga ttgacatagc ccttggcgga tttaaacaac ctaaacatta agcagtacag       180

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ccgcaacaca gacaagaacc ttactatccc cagcaatatg gacattatgg ttacaaccag       540

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aataagctnt atactttggt tacctatgta cctgttacca ctttcaaaaa tctacagaca   360

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tgcttagatg ttccaaattt agaaagctta aggcggccta cagaaaaagg aaaaaaggcc   360

acaaaagttc cctctcactt tcagtaaaaa taaataaaac agcagcagca aacaaataaa   420

atgaaataaa agaaacaaat gaaataaata ttgtgttgtg cagcattaaa aaaaatcaaa   480

ataaaaatta aatgtgagca aag   503

<210> 393
<211> 587
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (562)..(562)
<223> n is a, c, g, or t

<400> 393
tgaaaaataa agttttttatg tatattctac atatgtatat gttggtagaa agcaaaaacg   60

ctaggtaaaa ataaatgtaa tacaattttta gctatgaacc aaaaaaccat ttgtggtgtg   120

gatgcaagaa agtctggatg ggtgcagagt tctccatgtt tcacttctga catttgaaaa   180

tacgcagttt gcatttgata cgtcaaatgt tattttttaag aaaaccaata aaatcattaa   240

aaccgaaaag gcagttttgc ttgttttttac cttagttgga gttatctgca attgccgtat   300

tagtgtttta aggaacttgt aagtaagctc cttagtcccc tttagagcta cgaaacatgt   360

caattttact tttctccagc tttttggaat cttatctaaa ttaccatgta gagttctgca   420

tagcttcaaa ttctcttagc caatgtggtc tgtaagtgtc tatcgatgaa tttcaccgtt   480

aattgccgta gtatactgtc ctgtaccgga tgtgaagagg agcaactctg cacagtgcac   540

tggttgctcc catggtagga angaatggct tatcaatggt cggattt   587

<210> 394
<211> 650
<212> DNA
<213> Homo sapiens

<400> 394
ggaggatgga gcagtgagcg ggtctgggcg gctgctggca gcgccatgga gacggtacag   60

ctgaggaacc cgccgcgccg gcagctgaaa aagttggatg aagatagttt aaccaaacaa   120

ccagaagaag tatttgatgt cttagagaaa cttggagaag ggtgagtgta agaaactat   180

aggtaggtca ttgggtccca gtctttttcc tgccccagaa gaagcagaag gatatgaacc   240

tttcagcatt gttctaggtg gggtggaagg taaatttaca gcttgtgatg tccttcttcg   300

ctttactcca atccctatta tagacagatt tagtgattcc tggtctttttt aacacgaaga   360

atatctattg ttttctcttt tgtaggatct gtatgatttt atctacttaa cagatagcac   420

taattagatt aaaattctat aagaaacttt ttaatttgct gttcataatt tctgattggt   480

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atgcaataac tgtttcaatg aaaatcaatg taatttagta ttttaatatt tgcacctttg      540

tgaaatatag taaataaatt aagcactatc accaccttca cagctactta ggagatccac      600

aatcctgggt tgggagccag tggatttcct gaaacacaga tttgttaatg               650
```

```
<210>  395
<211>  502
<212>  DNA
<213>  Homo sapiens

<400>  395
ctcaagtgaa tcctggcttc ttggaagcgc ttgcctagac gagacacagt gcataaaaac      60

aacttttggg ggacaggtat gttttcttgc agctgcggtt gtaaggtctt ggcaagacaa      120

gcagtgtggc cagaattttg aacttctgat gaatgtgtaa tgcaaaggac cttgtacatt      180

tttttgtttc aaggtcctca aaatgagcac atgaagaggt tgctgtgaaa ctttaagtgg      240

ccctactgcg cagaagcatt cagatgtcac ttgatgatct gtaagggaac ttgctgattt      300

gggaatgtgc ttagggaaca cacattcctt ttgacagggt ctgtcactgg gtgggtgatg      360

aattatacag atgacatgtg ctttttttc tttttcaac ctcaatggta ttcctacagg      420

aaatggataa ccattttaac tgtatttttt gcagcccgta ccttcttggg aatacaattg      480

tctaactttt tattttggt ct                                              502
```

```
<210>  396
<211>  648
<212>  DNA
<213>  Homo sapiens

<400>  396
ccacaataat aagagaaaaa caggagcaaa aggatataca aaaccaccag aaaacaaata      60

acaaagtgac aggagtaagt ccttaactgg caataataac catgaatcta aatggattcc      120

atttcccact taaaagataa agacatgctg aatggataaa aagctgtcac ccagttatat      180

gctgcctaca acaaactcac ttcacctgta aacatacata tggatggaaa gagaaggcat      240

gggaaaagat actctactca aatgaaaaca aaaccaaac aaaggtggct attcttatat      300

gagataatac agacattaaa tcaaaaactg gaaacaaaca caaagtcatt gtataatgat      360
```

```
gaattcaatt atatcatgat gaattcaatt atatcctcct tcctgatcaa ttcagaaagg      420

aggatataat cttttaaat atatatacac ccaacaccag agcatataaa tatgtaaagg       480

aagataaagg gagtcctgtg atcaagaata aatataacaa ttataaatat tttatctaaa      540

gtgatagata gactgtaata caataatagg gtggtgacat taacacccccc tctcacattg     600

gactgatcat ctagaaggga gaaaaagctt tatgattgga aaagccat                   648
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<210>  397
<211>  705
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (668)..(668)
<223>  n is a, c, g, or t

<400>  397
attgtgttgg ccacccggga attcgcggcc gcgtcgacct acgcacacga gaacatgcct      60

ctcgcaaagg atctccttca tccctctcca gaagaggaga agaggaaaca caagaagaaa      120

cgcctggtgc agagccccaa ttcctacttc atggatgtga aatgcccagg tgaggagacg      180

gcttgctgta gtggggaaag cactggacct caacagttgg aaaatgttgt agtgttagct      240

gtctcgtatc cttgaagctg tgcagcagct tcagtttctt cgcctgtgga aaatattttc      300

cctgatactc ttaaaatttg aatgtatgag actggcaaag ttttgcatct taggaggagt      360

gattcatttc accgtgatct ctcatcacat ttcacataca accccctacgt tttttgtgt      420

tgggaaacaa tgtaatggat gatgagttgg gcataagtgc aggaaagacg ggtgtaatag      480

aggaaaaaaa tgttatctgc ttttctttca ggatgctata aaatcaccac ggtctttagc      540

catgcacaaa cggtagtttt gtgtgttggc tgctccactg tcctctgcca gcctacagga     600

ggaaaagcaa ggcttacaga aggatgttcc ttcaggagga agcagcacta aaagcactct     660

gagtcaanat gagtgggaaa ccatctcaat aaacacattt tggat                     705
```

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<210>  398
```

<211> 622
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (597)..(597)
<223> n is a, c, g, or t

<400> 398
cttttcctcc cgctgtcccc cacgggaggg gactgctctc ccccgctgca tcctttctgt   60

gaggtacctt acccacctca gcacctgaga gggtgaaata gaattctaac ctcgacattc   120

gggaagtgtt tttgagaagt ctcggtcggt aagggaagtc ttccaagtcc gtgcagcact   180

aacgtattgg cacctgcctc ctcttcggcc acccccaga tgaggcagct gtgactgtgt   240

caagggaagc cacgactctg accatagtct tctctcagct tccactgccg tctccacagg   300

aaacccagaa gttctgtgaa caagtccatg ctgccatcaa ggcatttatt gcagtgtact   360

atttgcttcc aaaggatcag gccctgagaa caatgacctt atttcctaca acagtgtctg   420

ggttgcgtgc cagcagatgc ctcagatacc aagagataac aaagctgcag ctctttgat   480

gctgaccaag aatgtggatt ttgtgaagga tgcacatgaa gaaatggagc aggctgtgga   540

agaatgtgac ccttactctg gcctcttgaa tgatactgag gagaacaact ctgacancca   600

                                                                      622
caatcatgag gatgatgtgt tg

<210> 399
<211> 155
<212> DNA
<213> Homo sapiens

<400> 399
cgccacttat ccagtgaacc actatcacga aaaaaactct acctctctat actaatctcc   60

ctacaaatct ccttaattat aacattcaca gccacagaac taatcatatt aaaaaaaaaa   120

                                                                      155
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa

<210> 400
<211> 700
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (13)..(13)
<223> n is a, c, g, or t

<400> 400

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cattgtgttg gcncccggga attcgcggcc gcgtcgactt tttgtgttgt ttggagcaga          60

aatactaaag aagattccgg gccgagtatc cacagaagtg gacgcaaggc tctcctttga         120

taaagatgcg atggtggcca gagccaggcg gctcatcgag ctctacaagg aagctgggat         180

cagcaaggac cgaattctta taaagctgtc atcaacctgg gaaggaattc aggctggaaa         240

ggagctcgag gagcagcacg gcatccactg caacatgacg ttactcttct ccttcgccca         300

ggctgtggcc tgtgccgagg cgggtgtgac cctcatctcc ccatttgttg ggcgcatcct         360

tgattggcat gtggcaaaca ccgacaagaa atcctatgag cccctggaag accctggggt         420

aaagagtgtc actaaaatct acaactacta caagaagttt agctacaaaa ccattgtcat         480

gggcgcctcc ttccgcaaca cgggcgagat caaagcactg gccggctgtg acttcctcac         540

catctcaccc aagctcctgg gagagctgct gcaggacaac gccaagctgg tgcctgtgct         600

ctcagccaag gcggcccaag ccagtgacct ggaaaaaatc cacctggatg agaagtcttt         660

                                                                          700
ccgttggttg cacaacgagg accagatggc tgtggagaag
```

<210> 401
<211> 479
<212> DNA
<213> Homo sapiens

<400> 401

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cgtggcagcc atctccttct cggcatcatg gccgccctca gacccccttgt gaagcccaag          60

atcgtcaaaa agagaaccaa gaagttcatc cggcaccagt cagaccgata tgtcaaaatt         120

aagcgtaact ggcggaaacc cagaggcatt gacaacaggg ttcgtagaag attcaagggc         180

cagatcttga tgcccaacat tggttatgga agcaacaaaa aaacaaagca catgctgccc         240

agtggcttcc ggaagttcct ggtccacaac gtcaaggagc tggaagtgct gctgatgtgc         300
```

```
aacaaatctt actgtgccga gatcgctcac aatgtttcct ccaagaaccg caaagccatc      360

gtggaaagag ctgcccaact ggccatcaga gtcaccaacc ccaatgccag gctgcgcagt      420

gaagaaaatg agtaggcagc tcatgtgcac gttttctgtt taaataaatg taaaaactg       479
```

<210> 402
<211> 628
<212> DNA
<213> Homo sapiens

<400> 402
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ctttgattac ctttgagtat taggttgaaa gcttctctgt gcttgattga acattgtgat       60

gatgttgatt gggtcatgtc agatttagac agtgttgtgt ttaagataaa tgtttaatgg      120

ctcttagcag tgttcatgcc tcccctttc ccctgatact ttaaaaacag aatatacaga      180

aaaggggagt tgggtgaaga atcaccatat tctcattacc agagtagtgt ctaccagctg      240

ttttcacatt tttctgtttc cttctgtcct tggaatcctt tttttagatc cttgtaatac      300

tagtaaagat attccactct gtgttgtaag catttttcca ttttgctcca tggtcttcat      360

aatgccctgt ggtcctttat taaggggatg caccatgtag aggtgaaagg ctttccttga      420

cttggccacc atttctgtat tttccttaga ggaggaggtt ccaacattt ctttttttaga      480

gacagagtct cgttctgaca cgcaggcagg agtgcagtgg catgataaca gctcactgca      540

gcctcgaact cctgggctca agttatcctc ccacctcagc ttcctgagta gctaggactg      600

                                                                        628
caggtgcctg ccaccacacc cagctaat
```

<210> 403
<211> 494
<212> DNA
<213> Homo sapiens

<400> 403
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cagccctccg tcacctcttc accgcaccct cggactgccc caaggccccc gccgccgcct       60

ccagcgccgc gcagccaccg ccgccgccgc cgcctctcct tagtcgccgc catgacgacc      120

gcgtccacct cgcaggtgcg ccagaactac caccaggact cagaggccgc catcaaccgc      180

cagatcaacc tggagctcta cgcctcctac gtttacctgt ccatgtctta ctactttgac      240
```
```
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```

```
cgcgatgatg tggctttgaa gaactttgcc aaatactttc ttcaccaatc tcatgaggag        300

aggggaacat gctgagaaac tgatgaagct gcagaaccaa cgagggtggc cgaatcttcc        360

ttcaggatat caagaaacca gactgtgatg actgggagag cgggctgaat gcaatggagt        420

gtgcattaca tttggaaaaa aatgtgaatc agtcactact ggaactgcac aaactggcca        480

                                                                        494
ctgacaaaaa tgac
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```
<210>  404
<211>  599
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (28)..(28)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (299)..(299)
<223>  n is a, c, g, or t

<400>  404
gggagacaag cccagccttt cggcgagnat acgtctaacc ctgtgcaaca gccactacat        60

tacttcaaac tgagatcctt ccttttgagg gagcaagtcc ttccctttca ttttttccag        120

tcttcctccc tgtgtattca ttctcatgat tattatttta gtggggcgg ggtgggaaag         180

attacttttt ctttatgtgt ttgacgggaa acaaaactag gtaaaatcta cagtacacca        240

caagggtcac aatactgttg tgcgcacatc gcggtagggc gtggaaaggg gcaggccana        300

gctacccgca gagttctcag aatcatgctg agagagctgg aggcacccat gccatctcaa        360

cctcttcccc gcccgtttta caaagggga ggctaaagcc cagagacagc ttgatcaaag        420

gcacacagca agtcagggtt ggagcagtag ctggagggac cttgtctccc agctcagggc        480

tctttcctcc acaccattca ggtctttctt tccgaggccc ctgtctcagg gtgaggtgct        540

tgagtctcca acggcaaggg aacaagtact tcttgatacc tgggatactg tgcccagag        599
```

```
<210>  405
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<211> 610
<212> DNA
<213> Homo sapiens

<400> 405
gggagacaag cccagccttt cggcgagata cgtctaaccc tgtgcaacag ccactacatt   60

acttcaaact gagatccttc cttttgaggg agcaagtcct tccctttcat tttttccagt   120

cttcctccct gtgtattcat tctcatgatt attattttag tgggggcggg gtgggaaaga   180

ttacttttc tttatgtgtt tgacgggaaa caaaactagg taaaatctac agtacaccac   240

aagggtcaca atactgttgt gcgcacatcg cggtagggcg tggaaagggg caggccagag   300

ctacccgcag agttctcaga atcatgctga gagagctgga ggcacccatg ccatctcaac   360

ctcttccccg cccgttttac aaaggggggag ctaaagccc agagacagct tgatcaaagg   420

cacacagcaa gtcagggttg gagcagtagc tggagggacc ttgtctccca gctcagggct   480

ctttcctcca caccattcag gtctttcttt ccgaggcccc tgtctcaggg tgaggtgctt   540

gagtctccaa cggcaaggga acaagtactt cttgatacct gggatactgt gcccagagcc   600

                                                                      610
tcgaggaggt

<210> 406
<211> 644
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (25)..(25)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (28)..(28)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (348)..(348)
<223> n is a, c, g, or t

<220>

<221> misc_feature
<222> (406)..(406)
<223> n is a, c, g, or t

<400> 406
gtttaaattt gacaaactaa agctnatnac tgctataaga gtaataactg ctcattttcc   60

ataactcatt cttaaagttt tagtaatgta aaagttattt ttttgcagta agttataatg   120

atagaagctt acatgttttt tcatgcctca tctgtttccc cttaaaacta taattatcag   180

taaagtcctg tggtattttt caatttgtaa gaaactaggc tatatataca ttgggaaaaa   240

cagccttcat ttgtcaatgc actagtgttc caaaggtttc tggtaattgt gtgctattgc   300

tttttgttga cttgcaaaaa aaaaaaaaaa aaaattacta tgacttgngg tagccctgca   360

accttcggaa gtgcttagcc cagtctgacc atacatttat atttanaatg cttaggtaaa   420

taaataatat gcctaaaccc aatgctataa gatactatat aatatctcat aattttaaaa   480

atcactgttt tgtataataa taaaacaagg caggcaagct gttctacaat gactgttggt   540

aagggtgctg aggaagaaaa acaaacaatc ttgattcagg gatagtgaat agacaaaaaa   600

tgtcctaatc aatgaagctg tgtgatgatt ctgattgaca gaga   644

<210> 407
<211> 653
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (637)..(637)
<223> n is a, c, g, or t

<400> 407
gtgcaaagtg ttatatccac tttcaacaaa gagagaagct gaaaagctaa cccaatgtta   60

attttggatc acacacattc agtgtagact ttaagatttt acttctgttg gagtagctat   120

attatttcta gttaaaaaac tctctatata catatttatt tgtttttcta cttgtttaat   180

atttttctct tccaattagg aactcaatat ggaataaaaa atatttaaat gtattttact   240

caaacgtgtg tgtatatatg tttgtgtgca tgataaggag agtgagagca agagtaagag   300

agagagagca cgcatagatg gaagcacaca tttaatgtct atgaaatgag aaaacattaa   360

ggctaagata tttttccttc tgaactagca gattgtatca atggctggtc acttaaatta   420

atcagtttgt aaagatattt aaaaggtatg tctaccttct tgcaattaat ttgattatgt   480

tctaatggca tggcaagaga aatgaaagaa dataactaaa agttaaaagt cgttgcatgt   540

ttttgttgca gcataccctt ctttcaggct accgaataac cttgattgac attggattag   600

tagtagaata cctcattggt agagcatatc gcagcancta cactagaaaa cat   653

<210> 408
<211> 452
<212> DNA
<213> Homo sapiens

<400> 408
gtctggaact ccagacctca ggtgataccc ctgcctcagc ctcccaatgt gctgggatta   60

cagctgtgaa gccaccgcgc ccggctgctg tgatagttga gatgtaaacc aaaaataaaa   120

ttctaagcca cccaatccga ctgaatggac ccttcctgtt gagcaaggac attccaaagt   180

aaactgaaaa gaccagctta ggccatgatg ggaaggggag gtgtcaacat gcctcattct   240

accttcctcc ctctggaatc cagacacaac tgaccagcat taacattaaa acagagatct   300

taagctgggc acggtggctc atgcctgtaa tcccagcact ttgggaggcc aaggtgggat   360

cacctgaggt cggaagttca agaccagcct ggccggtatg gtgaagccat gtctctactg   420

                                                                      452
aaaatgcaaa attggccgga cattgtggtg ca

<210> 409
<211> 900
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (4)..(4)

<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (16)..(16)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (116)..(116)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (119)..(119)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (129)..(129)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (134)..(134)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (137)..(137)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (150)..(150)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (165)..(165)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (190)..(190)
<223> n is a, c, g, or t

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<221> misc_feature
<222> (192)..(192)

<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (197)..(197)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (203)..(203)
<223> n is a, c, g, or t

<220>
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<222> (209)..(209)
<223> n is a, c, g, or t

<220>
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<222> (211)..(211)
<223> n is a, c, g, or t

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<221> misc_feature
<222> (214)..(214)
<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<222> (224)..(225)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (234)..(235)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (241)..(241)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (245)..(245)

<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (248)..(248)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (250)..(252)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (262)..(262)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (264)..(266)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (287)..(287)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (289)..(290)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (295)..(295)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (301)..(301)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (306)..(306)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (309)..(309)

<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (311)..(311)
<223> n is a, c, g, or t

<220>
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<222> (316)..(316)
<223> n is a, c, g, or t

<220>
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<222> (323)..(323)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (330)..(330)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (334)..(334)
<223> n is a, c, g, or t

<220>
<221> misc_feature
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acctgcacnt ttanccntgg gtgacaaaan tgaaaacttt gtctnaaaaa aaaaaaaaaa   180

aaattttaan tnaaatnaaa aancctttnc nttnttttn aaannggggg gggnnttttt   240

nggggnttngn nntggtaaaa antnnntttt tttttttttta ggggccnann ccccntttta   300

naaaanccng nttttnaaaa aantttttttn cccncnnttn gggggggggg nttttnancn   360

ntnttngggg gggnnccect nttannaccn ncaaantttt tantttttttg nnnaannncc   420

cccttttttn nttttttttg nggggggggg gnngccccccn nccttтnggg ggggggggntt   480

nngnaaaann actttтnaaa annaagggnn ggggnanat nncccccccn ggnttттtttt   540

tттaaaaant naanngggg gggnnnctna ntngggcnc ccannggggg nттanaanna   600

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ntttttттta tttttnnggn gggnaaaaaa ntttnaaaaa nnannatntt ttttccccccc   720

cccccncectt ttnggnaaan ccnngggggg ntccttttтn aaannnnccc ccaaaaaaaa   780

nttttttттnt tntnttttttc tctnggggnc cnnanttnta nantttttncn ccnaaaaaaa   840

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tatgttggct aaaactggtg tccatcacta cagtggcaat aatattgaac tgggcacagc   240

atgcggaaaa tactacagag tgtgcacact ggctatcatt gatccaggtg actctgacat   300

cattagaagc atgccagaac agactggtga aaagtaaacc ttttcaccta caaaatttca   360

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gagaaaggag agacaattat gttcctgagg tctcagcctt ggatcaggag attattgaag   300

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cagcttctcg ggaggctgag gtggggggac cacctgagcc atggaggttg aggctgcagt     180

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ccgtgtgact ggtgggatga aggtaaaggc agaccgagat gaatcctcac catatgctgc   240

tatgttggct gcccaggatg tggcccagag gtgcaaggag ctgggtatca ccgccctaca   300

catcaaactc cgggccacag gaggaaatag gaccaagacc cctggacctg gggcccagtc   360

ggccctcana gcccttgccc gctcgggtat gaagatcggg cggattgagg atgtcacccc   420

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acatcgtatt acacctgagg aggccaagta caagttgtgc aaagtgagaa agatctttgt   240

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aatattcctt actgatctat gttagcgttc ctggatccaa gaaggtcatc cttgacctgc   360

ccctggtaat tggcagcaga tcaggtctaa gcagcagaac atccagcatg ccagccgaa   420

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gctggccgct tcactcctgg aaccttcact aaccagatcc aggcagcctt ccgggagcca    420

cggcttcttg tggttactga ccccagggct gaccaccagc ctctcacgga ggcatcttat    480

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cgcgtcgaca caggccccag catcaagatc tgggatttag agaggaaaga tcattgtaga   120

tgaactgaag caagaagtta tcagtaccag cagcaaggca gaaccacccc agtgcacctc   180

cctggcctgg tctgctgatg acacaggttg ggcnggnncn cnggggnggn nnngnnnngc   240

ngnnggnncn gnnnncnnnn ngcnnnngnn nntnnncnnn gnncnnnnnn nnnnnnnnnn   300

ngntcnngnn gcnggggccn ggncgncgcg gncgcgnntn nnngggtncn nncncnnngg   360

cgcgc   365

<210>   420
<211>   240
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<213>   Homo sapiens

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gctgaaactt gaaaaaacaa agcaaatcaa aaacaggaaa aaattgtacc tggtactttt   120

ttttagaaaa aaagattaaa aaagaaagaa taaattcttg tttggaaact tgaaaaaaaa   180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ttttaaactc   240

<210>   421
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<212>   DNA
<213>   Homo sapiens

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<223>   n is a, c, g, or t

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<223>   n is a, c, g, or t

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aggtgaaaaa gggtaacctc aaagctaaaa agcccaagaa ggggaagccc cattgcagcc   120

gcaaccctgt ccttgtcaga ggaattggca ggtattcccg atctgccatg tattccanaa   180

aggccatgta caagaggaag tactcagccg ctaaatccaa ggttgaaaag aaaaagaagg   240

agaaggttct cgcaactgtt acaaaaccag ttggtggtga caagaacggc ggtacccggg   300

tggttaaact tcgcaaaatg cctagatatt atcctactga agatgtgcct cgaaagctgt   360

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tgagccacgg caaaaaaccc ttcagtcagc acgtgagaaa actgcgagcc agcattaccc     420

ccgggaccat tctgatcatc ctcactggac gccacagggg caagagggtg gttttcctga     480

agcagctggc tagtggctta ttacttgtga ctggacctct ggtcctcaat cgagttcctc     540

tacgaagaac acaccagaaa tttgtcattg ccacttcaac caaaatcgat atcagcaatg     600

taaaaatccc aaaacatctt actgatgctt acttcaaaaa ga                        642


<210>  422
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<212>  DNA
<213>  Homo sapiens


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aagacccccg aaaccagacg agctacctaa gaacagctaa aagagcacac ccgtctatgt     120

agcaaaatag tgggaagatt tataggtaga ggcgacaaac ctaccgagcc tggtgatagc     180

tggttgtcca agatagaatc ttagttcaac tttaaatttg cccacagaac cctctaaatc     240

cccttgtaaa tttaactgtt agtccaaaga ggaacagctc tttggacact aggaaaaaac     300

cttgtagaga gagtaaaaaa tttaacaccc atagtaggcc taaaagcagc caccaattaa     360

gaaagcgttc aagctcaaca cccactacct aaaaaatccc aaacatataa ctgaactcct     420

cacacccaat tggaccaatc tatcacccta tagaagaact aatgttagta taagtaacat     480

gaaaacattc tcctccgcat aag                                            503


<210>  423
<211>  620
<212>  DNA
<213>  Homo sapiens

<400>  423
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tggctatgct ggggggcgccc cacaaccctg ctcccccgac gtccaccgtg atccacatcc        120

gcagcgagac ctccgtgccc gaccatgtcg tctggtccct gttcaacacc ctcttcatga        180

acacctgctg cctgggcttc atagcattcg cctactccgt gaagtctagg gacaggaaga        240

tggttggcga cgtgaccggg gcccaggcct atgcctccac cgccaagtgc ctgaacatct        300

gggccctgat tttgggcatc ttcatgacca ttctgctcgt catcatccca gtgttggtcg        360

tccaggccca gcgatagatc aggaggcatc attgaggcca ggagctctgc ccgtgacctg        420

tatcccacgt actctatctt ccattcctcg ccctgccccc agaggccagg agctctgccc        480

ttgacctgta ttccacttac tccaccttcc attcctcgcc ctgtccccac agccgagtcc        540

tgcatcagcc ctttatcctc acacgctttt ctacaatggc attcaataaa gtgtatatgt        600
                                                                         620
ttctggtgct gctgtgactt
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<210>   424
<211>   702
<212>   DNA
<213>   Homo sapiens

<400>   424
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cttatagaaa agggagacat tcatttaact tcaagcccat attattctta aaagctgact        120

cttgaaatag tatttattga gtcatagtgg agtcatggga ctttttaagg gccggaaggg        180

actatttaga tcatccagtc ccaccctgtc attttatgga ggaggaaact gaggcctaga        240

taagataacc agttagtggg tccactgacc tttaggacag tagtctatcc gtaagagaca        300

acatggagaa agaaatacaa cgtttttata gtgaattatc atcttacaaa gaatattctt        360

cccatatcgc actttttaaaa agtgggtacc ttagtcaaat aggagaaaaa accacttgag        420

tagtttcatc ctcaggtttt aggtgaggaa actgatactc agattaaata actttaagca        480

cacagagcct gaatgatagt cttatttgag ctcatctgtg ctttttaatgt gtactacgtt        540

aggtgttttc acttgcattt cctttagtct tatttgagct catctgtgct tttaatgtgt        600

actacgttag gtgttttcac ttgcatttcc ttgtttgacg ttgacaataa atcgtgaagc        660
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tgccttatct aaggaagtcc taaagtaaat cattggaaca ca

<210> 425
<211> 632
<212> DNA
<213> Homo sapiens


<220>
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<223> n is a, c, g, or t

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ttaatctctg gatttacccc atctcatttc tcttttagga aaactgtttg tatgtggtgg   120

ctttgatggt tctcatgcca tcagttgtgt ggaaatgtat gatccaacta gaaatgaatg   180

gaagatgatg ggaaatatga cttcaccaag gagcaatgct gggattgcaa ctgtagggaa   240

caccatttat gcagtgggag gattcgatgg caatgaattt ctgaatacgg tggaagtcta   300

taaccttgag tcaaatgaat ggagccccta tacaaagatt ttccagtttt aacaaattta   360

agaccctctc aaactaacag gcttagtgat gtaattatgg ttagcagagg tacacttgtg   420

aataaagagg gtgggtgggt atagatgttg ctaacagcaa cacaaagctt ttgcatattg   480

catactatta aacatgctgt acatactttt tgggtttatt tggaaaggaa tgcaaagatg   540

aaggtctgtt ttgtgtactt ttaagacttt ggttatttta ctttttggaa aagaataaac   600
                                                                      632
caagaattga ttgggcacat catttcaaga ag
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<210> 426
<211> 374
<212> DNA
<213> Homo sapiens

<400> 426
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agagcagcag ccatggccct acgctaccct atggccgtgg gcctcaacaa gggccacaaa   60

gtgaccaaga acgtgagcaa gcccaggcac agccgacgcc gcgggcgtct gaccaaacac   120

accaagttcg tgcgggacat gattcgggag gtgtgtggct ttgccccgta cgagcggcgc   180
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gccatggagt tactgaaggt ctccaaggac aaacgggccc tcaaatttat caagaaaagg    240

gtggggacgc acatccgcgc caagaggaag cgggaggagc tgagcaacgt actggccgcc    300

atgaggaaag ctgctgccaa gaaagactga gcccctcccc tgccctctcc ctgaaataaa    360

                                                                     374
gaacagcttg acag


<210>   427
<211>   567
<212>   DNA
<213>   Homo sapiens

<400>   427
gaattattga ctttgaattg catttcagta ccatgaagtc aaagtcagtg gtgtatttgc     60

tcatttgttc attctttctt ttccaccaac attactgcct gcagagccag aggtgagtgc    120

agaaatcctg tcaattcgtc acttgtggac aacctgcagc ttgccacagc ctacagttcc    180

accactgtga cctctgaaaa cctcctgaac aaaaggaagg agacttggaa atcctgaatg    240

ggcttggaga cattaaggga gaactgcctc cctggaccaa ggcagaattc aatagaacca    300

gcaagaaatt ttcctatgaa tgggaaagca ggtggcaggg ggcaggggtg gaaaagcttt    360

gtacaggaat tgtggaaaag cttttgcatt atctctagtc tgaaagtcac atttctcagt    420

tcctttccac tctcttctgt caacttgctg tgagtaaatg acatctgtca cctgtgacac    480

gggccaggga ctatcaccat atggccccca cacattatct agtaccagcc tgcctgggcc    540

                                                                     567
atgccttttc cagtcactgt accagcc


<210>   428
<211>   620
<212>   DNA
<213>   Homo sapiens

<400>   428
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tggctatgct ggggggcgccc cacaaccctg ctcccccgac gtccaccgtg atccacatcc    120

gcagcgagac ctccgtgccc gaccatgtcg tctggtccct gttcaacacc ctcttcatga    180

acacctgctg cctgggcttc atagcattcg cctactccgt gaagtctagg gacaggaaga    240
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tggttggcga cgtgaccggg gcccaggcct atgcctccac cgccaagtgc ctgaacatct    300

gggccctgat tttgggcatc ttcatgacca ttctgctcgt catcatccca gtgttggtcg    360

tccaggccca gcgatagatc aggaggcatc attgaggcca ggagctctgc ccgtgacctg    420

tatcccacgt actctatctt ccattcctcg ccctgccccc agaggccagg agctctgccc    480

ttgacctgta ttccacttac tccaccttcc attcctcgcc ctgtccccac agccgagtcc    540

tgcatcagcc ctttatcctc acacgctttt ctacaatggc attcaataaa gtgtatatgt    600
                                                                      620
ttctggtgct gctgtgactt
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<210>  429
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<212>  DNA
<213>  Homo sapiens

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cagtgccata gtttggacag tacctttcaa tgattaattt taatagcctg tgagtccaag    120

taaatgatca ctttatttgc tagggaggga agtcctaggg tggtttcagt ttctcccaga    180

catacctaaa ttttttacatc aatcctttta aagaaaatct gtatttcaaa gaatctttct    240

ctgcagtaaa tctcgcaggg gaatttgcac tattacactt gaaagttgtt attgttaacc    300

ttttcggcag cttttaatag gaaagttaaa cgttttaaac atggtagtac tggaaatttt    360

acaagacttt tacctagcac ttaaatatgt ataaatgtac ataaagacaa actagtaagc    420

atgacctggg gaaatggtca gaccttgtat tgtgtttttg gccttgaaag tagcaagtga    480

ccagaatctg ccatggcaac aggctttaaa aaagaccctt aaaaagacac tgtctcaact    540

gtggtgttag caccagccag ctctctgtac atttgctagc ttgtagtttt ctaagactga    600

gtaaacttct tattttttaga aagtggaggt ctggtttgta actttccttg tacttaattg    660
                                                                      669
ggtaaaagt
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<210>  430
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<212>  DNA
<213>  Homo sapiens
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<400> 430
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caatagatat agtaccgcaa gggaaagatg aaaaattata accaagcata atatagcaag   120

gactaacccc tataccttct gcataatgaa ttaactagaa ataactttgc aaggagagcc   180

aaagctaaga cccccgaaac cagacgagct acctaagaac agctaaaaga gcacacccgt   240

ctatgtagca aaatagtggg aagatttata ggtagaggcg acaaacctac cgagcctggt   300

gatagctggt tgtccaagat agaatcttag ttcaacttta aatttgccca cagaaccctc   360

taaatcccct tgtaaattta actgttagtc caaagaggaa cagctctttg gacactagga   420

aaaaaccttg tagagagagt aaaaaattta acacccatag taggcctaaa agcagccacc   480

aatt   484

<210> 431
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<212> DNA
<213> Homo sapiens

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cccagaaaac ctgtgactgt tgaagaaaat tcatctgtga attttatat tcaaggagtc   120

agtatttata ttcatctttt aaactgggaa gatttatatt ttactttaaa acttcttgat   180

aataatttac aatgaatgga cacagtgatg aagaaagtgt tagaaacagt agtggagaat   240

caaggtaagt aagcactttg ttatcaattg tttactatga agagagttga aaacttgact   300

tttttctttta ttgttattgt tgttatttag ttttcctcat aggtagcaga gttttcaggt   360

tttcctctta gctatccaaa tactaaaaaa attctgatat acgaaccttt tttcataata   420

caggtttta ttatatttt cattcagata cacagtagat cttaaatata gaaagttttt   480

gtttacttaa atctatttgg aagtttatat ttgagctaat aattaagctg gagcatgtat   540

aatagattta aattgttttg actgttagtg aaattt   576

<210> 432
<211> 669

<212> DNA
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<400> 432
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atgacttgca acaagtcagg aggacatggg gttggggtag ttcagcagtg cctgtctgaa   120

caaaggtgaa aattgggctt ttattgggct gatcaagggg gagtaaaggc agccaggagc   180

agtcgcctgt catgcttcta cctatattgc atgtatagaa aagggaaaat aaactccttc   240

ctgggcaggg ttttagtatg ctaaggaggg gagttattca acttcaatcc aactcaagca   300

tcagcattgc tgcgtccatc ccagttttgt tttgctgggg ctgaacttct tcctataact   360

ttttgaaaca acaagaactc aaggtgtgac agttacaagt gggccctttt tcacagtgtg   420

tacctaaaca cgtgaggacc ctggattaca gaatgacaga ctcgaagtga ctcaagttcc   480

ggttgttcat ctttagatgg taaagatggc tgtacgtact atccttgctt atttccaatc   540

tattgtttaa actcttgtat atgtaatacc gcagaggcta gagatacaac ctttgaccaa   600

atgagtgaat tcaagtaatc cattactaat gtgatctgga aacaaacatg gtgttgaatg   660

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tgcatatgt

<210> 433
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<223> n is a, c, g, or t

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taaaggaccc aatcataagc attttacagt atggataccc cattttaaaa aggtaaactg   120

aggcacaatg caattttttt ttttttttaa ggagtttatt tgagcaaaca gtgattcatg   180

aatcaggcag caccaaacca gaaggaggct ttgctgaana aggatgaggg acaagcattt   240

ataaagtgaa tgtagatgta atacaaagaa aatatttgaa ccgggtgcgg tggcttacac   300

ttgtaatccc aacactttgg gaggccaagg cgggcagatc acaagatcaa gagatcgaga   360

ccatcctggt caacatggtg aaaccccatc tntactaaaa aatacaaaaa ttanctgggc   420

gtggtggtgc gtgcctgtag tcccagctac ttgggcggct gaggcaggan aattgcttga   480

acccgggagg tggaggttgc agtaagccga gattgcacca ttgcactact ccagcctggt   540

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aanattgtnt tagctanatn antcaataga tatcnagata naanaananc nnggatatac   180

agcgatgtnt nannggnnnn nnnanggaac gaacatcnac nttaannata agctngngga   240

gagagacang tangttatan annagaatng nagtaggngt gatcataata gnnnnnannt   300

antatatang atnttantgn nctntnntnn gtttatcnnn aatntctatn ctngagagna   360

gcnnnatnnn naggcganga nattgggnnn tnctcntnat agananctgg tgtcnnanaa   420

ntacntcatc tattnnanctc tcacnanatg gnannatana gnagngnnnt nnanaggant   480

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angcatagng nntnnctnaa acaaaannna taaganntct cgnnaanang ggcctntnnt    540

ntagcgaggn nttantttnt atanttnttc nctcttnnaa tanntangat anatganctn    600

gnngtgatan atannnnnta cngtnaannt ntantcntat aatagatana aatataggat    660

nttnctctgg cnggtngaan anttnntncn ntttnaataa tgntgttagn gacngngntn    720

tnanannnnn ttagaaaggt actctatata ctnntatgnt ncggcnnata atanaacaga    780

tgtttgtatn aatatnaaan aaggtcnntt tcgncaagag aannntgnct ggtnatagaa    840

ttagcataan ttanntanta tgatnnantn ntnctacnan tnttagcnnt tngcagnagt    900

cattnngnat ntatnnngnn tantagtnan ttgggnctnn tncagantat attntgngaa    960

natgaannta cgnantcctn ngnantatna tnntgantan ganaancnan anntnttnta   1020

nnantgncta tanattgccn ngatanattn tnnnaatgaa ncgatagccc gcnctaagga   1080

nntnngtnan ntaaanntct cagataannt acntnttnnt tattaancna nnatcacant   1140

atancngnga cannngcgan antatatgta tgnnantatn acngntccnn nccgngaann   1200

tantcntann aggcattcng nngagctntt ctnctagacn atttnnantg aaannatgcn   1260

gnnaaaaacg acnnncttna anttntgtct acantccgcn ntntttntac agatngcagn   1320

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tacaatacaa caaccaagat atataataac tgtacagtgc ctagacattc cagtaagaac   180

cattattttc tttaatgtag aatgattaat acatattcta caaggggcag taaggttagt   240

aattctatag ggtatgtccc gacataattt tcaaattgta caataacaca aacaactttg   300

ttaaggccat gtttttatttg ctgattaatg gacaaaaggc aatgtaattt attttcaagt   360

attttcttga aagtctgtgc tcataaaaat catgaaaagt tggaaagact gttaaatcac   420

tgaaacttca aatatatctt acacaatctt gtttgtacaa aaatacaagt taaatataaa   480

cataaagcaa tcatggtaat tttatgcaaa tctgttttat gtgatcatca gttatatata   540

aaagtttctc agttctgtta tttgtgaaaa gatcaatacc agattgaatg actacctatt   600

ggcaaagggc cctaaaaagc ttactttagc actcatcttt tacatggtta aatgcatttc   660

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agggtgggga ctgggaattt aaggagagct gggaacggat cccttaggtt caggaagctt   180

ctgtgcaagc tgcgaggatg gcttgggccg aagggttgct ctgcccgccg cgctagctgt   240

gagctgagca aagccctggg ctcacagcac cccaaaagcc tgtggcttca gtcctgcgtc   300

tgcaccacac aatcaaaagg atcgttttgt tttgtttta aagaaaggtg agattggctt   360

ggttcttcat gagcacattt gatatagctc tttttctgtt tttccttgct catttcgttt   420

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acaga                                                                     485



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tgctagcagt ctgcttctgt ctgaactcag ccagcagagg caaactcccg gttccccgag        180

aaacactctg aaggcagggt gggtgactcc acccaccacc gcctctccta gccatgcagg        240

ccatgtctgc tagagcttcc agcgcagtgg tcctaattct gtctgaatcc ggctgagggg        300

tgcagcctcc tgttactgcc caggaaaca cccagatggc agggtgggtg actccaacca         360

cctctgcctg tggtagccag atgggccaca cctgctagag cttccagccc agcagtcccg        420

ctactctgtg ggtgggtgcc atcccctgtt cctctgggaa gcacccagac agctgattac       480

gtgaccccac ccacttctgc agatcctagc tgagcaggac ttgctggttt ggacaatgcc       540

caagcaggga agagccctca ttctcttatc actgacagag gtgagatgtc cgantttgta       600

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gcctggccaa catggcaaaa ccccgtcact attaaaaata caaaacatta gctgggtgta   180

gtggcaggtg cctgtaatcc cagctattcg ggaggcctag gaaggaaaat ggcttgaacc   240

tgggggtgga ggttggagtg aggcaagatc acaccactgc actccagcct gggcgacaga   300

gcgagactcc atctcaaaag aagaaaaaaa aaacaacaaa aaaaccttta tcagattatc   360

agaggttatc actacagagg gaggtaaaat tggagggaaa agggtacaaa tttatttcac   420

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tacaatacaa caaccaagat atataataac tgtacagtgc ctagacattc cagtaagaac   180

cattattttc tttaatgtag aatgattaat acatattcta caaggggcag taaggttagt   240

aattctatag ggtatgtccc gacataattt tcaaattgta caataacaca aacaactttg   300

ttaaggccat gttttatttg ctgattaatg gacaaaaggc aatgtaattt attttcaagt   360

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attttcttga aagtctgtgc tcataaaaat catgaaaagt tggaaagact gttaaatcac      420

tgaaacttca aatatatctt acacaatctt gtttgtacaa aaatacaagt taaatataaa      480

cataaagcaa tcatggtaat tttatgcaaa tctgttttat gtgatcatca gttatatata      540

aaagtttctc agttctgtta tttgtgaaaa gatcaatacc agattgaatg actacctatt      600

ggcaaagggc cctaaaaagc ttactttagc actcatcttt tacatggtta aatgcatttc      660

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tcccttaacc tgccacggga gaggggcccc caaactttct tcccccccaca cttctggttt      120

tctgtgtgga gggggagcag ggatatctaa gctgtggtgt gaaagggtag gagagatgct      180

                                                                       203
ggaggtgggg gtgctgtgtt cta


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tatagcaata cagngaactt caccaaatcc taaatattca gtacctgaac tggctacaac   180

accgngtgca cacccagttc ctgcagaatc tcttgcagat atgggagagt cagccagtga   240

aaagatccat ttcttgggaa tccttgtcaa caagaccagt tcagaaatcc aggatatata   300

gaagcctact gtaatttaaa aacagtaaca aaaaccccaa caaaacccaa atcaacaaag   360

accaagataa aggngtgata aacattaatt gtaatggttt tcctttacat gcaatacatg   420

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cattttaaaa tcactaagaa acacgaaatt ttgtagagca aagtttgngt ttcacgtaag      480

tgcaaatgaa tatatatttt attttttata ctattaaatt atatatattt tttccataca      540

aaagcacaca gtgttaatct ataaaatgac atccaagtgg atgatgattg ttttttgcatg     600

tcccccctgct tagatttttt taaaatatat agtcaaaaat taacatcctt ctttaaaaat    660

acagaaggga aaaangggca aaaaaaaaaa tctagactcg agcaagctta tgcatgcatg      720

cggccgcaat tcganctcgg ncgacttggc caattcgccc tatagngagt cgnattacaa     780

ttcactgggc cgncgnttta caacgtcgng actgggaaaa ccctggcgtt acccnnctna     840

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cttgaaatag tatttattga gtcatagtgg agtcatggga ctttttaagg gccggaaggg   180

actatttaga tcatccagtc ccaccctgtc attttatgga ggaggaaact gaggcctaga   240

taagataacc agttagtggg tccactgacc tttaggacag tagtctatcc gtaagagaca   300

acatggagaa agaaatacaa cgttttata gtgaattatc atcttacaaa gaatattctt   360

cccatatcgc acttttaaaa agtgggtacc ttagtcaaat aggagaaaaa accacttgag   420

tagtttcatc ctcaggtttt aggtgaggaa actgatactc agattaaata actttaagca   480

cacagagcct gaatgatagt cttatttgag ctcatctgtg cttttaatgt gtactacgtt   540

aggtgttttc acttgcattt cctttagtct tatttgagct catctgtgct tttaatgtgt   600

actacgttag gtgttttcac ttgcatttcc ttgtttgacg ttgacaataa atcgtgaagc   660

tgccttatct aagnagtcct aaagtaaatc attggaacac atgtanccag tttgttgttt   720

ttatttgcca ggtntcaaat ataactgaaa acccatgcta actgactnat tttaaaagnt   780

gtntggggca tgaaangatt gctctgcctg ggcgggnggt tnancctgng tcccccnttt   840

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<222>  (823)..(823)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (825)..(825)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (827)..(827)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (832)..(832)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (858)..(858)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (860)..(860)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (862)..(862)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (865)..(865)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (868)..(868)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (879)..(879)
<223>  n is a, c, g, or t

<220>
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<221>  misc_feature
<222>  (883)..(883)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (886)..(886)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (890)..(890)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (892)..(892)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (895)..(895)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (912)..(912)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (914)..(914)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (916)..(916)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (921)..(921)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (926)..(928)
<223>  n is a, c, g, or t

<220>
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<220>
<221> misc_feature
<222> (934)..(935)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (939)..(939)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (941)..(941)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (945)..(949)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (953)..(953)
<223> n is a, c, g, or t

<400> 443
ttgtgttggt acccgggaat tcgcggccgc gtcgacggag ttttacctta ttacacttta   60

atctctggat ttaccccatc tcatttctct tttaggaaaa ctgtttgtat gtggtggctt   120

tgatggttct catgccatca gttgtgtgga aatgtatgat ccaactagaa atgaatggaa   180

gatgatggga aatatgactt caccaaggag caatgctggg attgcaactg tagggaacac   240

catttatgca gtgggaggat tcgatggcaa tgaatttctg aatacggtgg aagtctataa   300

ccttgagtca aatgaatgga gccctatac aaagatttc cagttttaac aaatttaaga   360

ccctctcaaa ctaacaggct tagtgatgta attatggtta gcagaggtac acttgtgaat   420

aaagagggtg ggtgggtata gatgttgcta acagcaacac aaagctttg catattgcat   480

actattaaac atgctgtaca tacttttgg gtttatttgg aaaggaatgc aaagatgaag   540

gtctgttttg tgtactttta agactttggt tattttactt tttggaaaag aataaaccaa   600

gaattgattg ggcacatcat ttcaagaagt cccctctcct ccacatttgt tttgccaatt   660

tgcacattaa atgactcttc cctcaaatgt gtactatggg gtaaaggggg tagggnttaa   720

anatgtaaac agttgggttt tttaagggnc ctttttcata actggaacac tctntacaag   780

```
gntncttntt  aaataaataa  cttgactttt  ttgtttttnta  aangnanctt  cntgcttcca      840

taaaaaaaaa  aatttaantn  gncanctntg  ctgctgcgnc  canttngctn  gnccntggca      900

ttccctaggg  angntnaata  ntggcnnntt  aacnnggcng  naacnnnnnc  cant            954


<210>   444
<211>   787
<212>   DNA
<213>   Homo sapiens

<400>   444
gggcgatgca  tgctttatta  aggctcttgt  ttcacctggc  agtgtactgt  atcaacgtat       60

aatacagaaa  aaaaatctct  ttaaggtcct  ccttcacaaa  gacatagagt  gaaactccct      120

ttacatgtca  gtatttgttc  aacactttag  gcaacttgac  tgtcagtgtt  aaaatggaaa      180

acaggaaaat  ggaaaaatct  gaccaattct  gccaccttga  gactttcata  tagaccttgc      240

acaacaattg  tatagatcac  acaccggctg  tatttaatat  gtaacatttt  cacacatatt      300

aaagatacag  aagtattaaa  aaaccccaa  tgttaatgta  tttgcttaaa  aggcacaagt      360

ttcacatatc  tgtctagcta  tctgttggta  atacagaaag  tatactactt  ttttaaaaaa      420

gtgggcagaa  ttcttgtgta  tgtatatttg  tgtgtacagt  atgtgtatgt  gtgtatatat      480

atatattata  tatatagata  atatataaat  atttttttta  aggagaaact  agaatgttta      540

gctagaaaat  tccacagcct  gtgaagaaat  atttcaaaat  ggccataaag  gaggtaaaaa      600

tgaaaaccat  aacctaactt  ttatagaggc  tttatctttta  atttaacgat  gtgcggagga      660

ctttcttgct  tgaatctgtt  ccgggctgtc  tgctctgtcc  atcaaatggg  caggtctggg      720

aatgaggcac  cttcggccgt  tcagaagtgg  cctgaacaga  atgctggaac  ccaggctgga      780

ctcggac                                                                    787


<210>   445
<211>   689
<212>   DNA
<213>   Homo sapiens


<220>
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<221>  misc_feature
<222>  (673)..(673)
<223>  n is a, c, g, or t

<400>  445
caaacctgca tgttctgcac atgtatccag gaacttaaaa aaaaaaaaag atagtttgtg      60

tgtcttaatt gaataatagt agatttatag attaaagatc tatgggtttt taatatggat     120

tagaaatctg tgggtttttg atatggatta gaaatctgtg ggttttaat atggattgga      180

aatctgtggg tttttaatat ggattaaaaa acatctgtgg gtttttaata tggattaaac     240

atctgtgggt tttaatatg gattaaacat ctgggttttt aatatggatt aaacatctgt      300

gggtttttaa tatgggttaa aaatcaaaag aaaatgaact atttgctcca gtgcaggaaa      360

atacaggcaa tactggatac aattagatgg tcaggagcga taacccggtt gccattgttt      420

gaagaagaga ataaggtgct agcattccta tccgtagata atttgacagc taggaaatag     480

ggggagtctt ctatgtagtt agtgaaggct aaatgaacta ttatatgcag ttatcgtaga     540

agagtactca aaaaaatctg taaaaaataa agaaaggccg ggcgcggtgg ctcacgcctg      600

taatcccagc actttgggag gccgaggcgg gtggatcatg aggtcaggag atcgagacca      660

tcctggctac canggtgaaa cccccgtct                                        689


<210>  446
<211>  688
<212>  DNA
<213>  Homo sapiens

<400>  446
caagactcca tctcaaaaaa aaaaaaaaat ctacagtgct gagtatataa aattattaac      60

acatttcaca acaatatgtg tttgtggagt taaatatttt ttgtctttaa aacaggtaat     120

tttagtgcat acttaatttg atgattaaat atggtagaat taagcatttt aaatgttaat     180

gtttgttaca ttgttcaaga aataagtaga aatatattcc tttgtttttt atttaaattt     240

ttgttcctct gtaaactaaa agaacacgaa gtaattggtc acaattactg gtgtttaact     300

gccaaatatg ggtaaataag ggaaaatttt gtttaatatt tagtccttct gagatggctt     360

gaatatttga attttgttgt acgtctatac tgggtagtca caagtcttat aaacacttta     420
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gaggaaagat ggatttcagt ctgtattttt aaacatcatt tattttaaat ctggtgctga   480

aaaataagaa aaaaattaaa ctgcattctg ctgttcttct ttagaagcat tcctgcgtaa   540

atactgctgt aatactgtca tgcaaagtgt atcctttctt gtcgtatcct ttttggggca   600

gtgttttttt gtttttttcc tagaaatgtt tgtccttccc ccacctgttg atccaggtta   660

aggaatactt ttttacactt tattcaaa   688

<210>   447
<211>   724
<212>   DNA
<213>   Homo sapiens

<400>   447
cttttcctcc cgctgtcccc cacggagggg actgctctcc cccgctgcat cctttctgtg   60

aggtacctta cccacctcag cacctgagag ggtgaaatag aattctaacc tcgacattcg   120

ggaagtgttt ttgagaagtc tcggtcggta agggaagtct tccaagtccg tgcagcacta   180

acgtattggc acctgcctcc tcttcggcca cccccagat gaggcagctg tgactgtgtc   240

aagggaagcc acgactctga ccatagtctt ctctcagctt ccactgccgt ctccacagga   300

aacccagaag ttctgtgaac aagtccatgc tgccatcaag. gcatttattg cagtgtacta   360

tttgcttcca aaggatcagg ccctgagaac aatgacctta tttcctacaa cagtgtctgg   420

gttgcgtgcc agcagatgcc tcagatacca agagataaca aagctgcagc tcttttgatg   480

ctgaccaaga atgtggattt tgtgaaggat gcacatgaag aaatggagca ggctgtggaa   540

gaatgtgacc cttactctgg cctcttgaat gatactgagg agaacaactc tgacaaccac   600

aatcatgagg atgatgtgtt ggggtttccc agcaatcagg acttgtattg gtcagaggac   660

gatcaagagc tcataatccc atgccttgcg ctggtgagag catccaaagc ctgcctgaag   720

aaaa   724

<210>   448
<211>   622
<212>   DNA
<213>   Homo sapiens

<400>   448

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caagaactct gggacatttg caaagggtat ggcatatgtg taatgggaat accagaggag          60

aggaaagaca ggaagtcaaa aaaagaattt ttccaaatta atgataggtt ccaaaccaca         120

gatgcaggaa gcttaaacac caacaggata aataaaacaa aatctacgct taagcatatc         180

atacttaacc tgcagaaaat tacagacaaa gaaaaaacac cagaggggaa gctggcagaa         240

acataccacc tatagcggaa gaagaataag aattacatca gacttccctt cagaaatctt         300

gcaaacaaaa agatgtagca caatatttaa agtattaaag gaggccgggc ccggtggctc         360

gggcctgtaa tcctaacact ttgggaggct gaggcaggag gaccatgagg tcaggagatc         420

gagaccatcc tggtgatggt gataccccat ctctactaaa aatacaaaaa attaaccggg         480

catggtgaca cgcacctgta atcccagcta cttgggaggc tgaagcagga gaatcgtttg         540

agcccaggag gtggaggttg cagtgagccg agatcacatc actgcacgcc tgggcaacag         600

                                                                          622
agcgagactc catctcaaaa aa
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<210> 449
<211> 834
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (716)..(716)
<223> n is a, c, g, or t

<400> 449
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cgacccgttt tagtcaggat ggtctcgatc tcctgacctc gtgatccgcc tgcctcggcc          60

tcccaaagtg ctgggattac aggcgtgagc caccgcgccc ggcgtaaatc aggttttta         120

aatgtttgcc aaaccttatc actgactttt ataacaaaat tatttactat aatcattagg        180

gaatatttaa gttctgctaa tacttaaaat tgcagagtgc taaaaccagc agtgagttta        240

gaatcaagct aagctttatt gttgctacta tttgaggcat attagttgac tggtgttcat        300

atgcaaggca gtctactggg tgcaacaagg gttagaagga tatttttaaa aaactgaccc        360

tattctcagg atgaaaataa tacactagta atagtctgct ctgttggtta actcctcgta        420

aggaggtaca attaaaatgc tgtagtgttg caagggaagg agaggaagaa tcatattcct        480
```

```
tcactagcag gatcaagaaa gctttatag aaatatacaa aatcttcact tcttgaagga    540

ttggtaaaat ttaatagcca acattgggca cttattcatt ctctgagtaa atatttattg    600

catgcttatc ttgtatcaag cattgtgatg aaagcacaag aatgaaagag gagggagaat    660

gtttagagaa taagggctga aacacagatt ttgtagggag cgtaggggag actganaaga    720

caggttcagg ttagtaaggg cgctcatatt ttgaccctga atgttaacta tgtgcacatc    780

atgctagcta ttctaaatca ggcattttca aatggaagca ggcactgaca tttt          834
```

<210> 450
<211> 624
<212> DNA
<213> Homo sapiens

<400> 450
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cgtgaagggt ctttatgtat tagtattaga gtgatcttt gattattttc ctcactataa     60

ggaaattatt tcctcaggat gagctgccat aacattccac tgtctgatgg caattttaaa    120

gcctgaaatt gaagcccatg ctaggctat gagaaccta gttcgtatag taaagttgat    180

atcttctgga tgtatactaa ttttaggctt tattttaaaa ctgctggaaa ctgaaactta    240

gacaaaagta ttttcaggac atcatttaca atgtttagcc ctaaagagtc aagctgtggg    300

attctgagtc tttcatatgt tacagcagaa acttaaaagc aagaggaaat tggctgggca    360

cagtggctct gtaatcccag cactttggga ggctgaggtg ggtggatcat gaggtcaaga    420

gattgagacc atcctagcca acatggtgaa accccatctc tactaaaaat acaaaaatta    480

gctgggcgtg gtggcacacg cctgtaatcc cagctagtca ggaggctgag caggagaat     540

atcttgaact tgggaggcag aggttgcagt gagccaagat tacatcactg cactccagcc     600

tggtgacaga gcgagactcc gact                                          624
```

<210> 451
<211> 966
<212> DNA
<213> Homo sapiens

<400> 451
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ctgaaactgc actgaaccca caggtaggtt acatcacagg acagaaatct gaggagctgg     60
```

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agaaagcaaa agaataaagg atgggctgac accagaagga attaaaggaa ttttttatact      120

gaacttcaat tacttgttca tttgaagttt gtttttttaa tgaacgtttt tgctgttact      180

taaatatagt gttttgaaag tgtttcaaat gtattcaagt tgggattttc catattttac      240

tacagttctg tcttagtatg ttcaccataa aacacttatc attaaagctc acaaagtgct      300

tttttgtaat atgaggataa aatgaagcca tataagaatt ttttttatatc tgtacattta      360

acccacattt gagctttagc caaaatatat agcttttttt tttctgacct ggccaacgta      420

ttatccagca aacatcaact gaagcaatat ggaaacactt ccaaatgttt gccaataatg      480

ctattaagtg actgatgtca acattagtta catggcaaac taaagaggca ttatacattt      540

ttaaaacaca ctaacatata actgtagata atgtaaggtt tatttatatg catatttcat      600

agtatattta aatgtttaaa tataaaaaag ggttttttaaa cacttttaat ttttatctttt      660

gatttttttt attgatatct ctttccaggc tactaataaa attgccagaa ctaaactatc      720

aggtaaaggt taaggcatca attgacaagt aagttttcta atttcgtttt gaattacaat      780

tccaaatgta agactttttaa aaatgaatgg cctttatttt atagaataat tttgaccttt      840

taaatttact tatctaacat tatataatga atgtacttca aatatttgac tttgaagtca      900

acattaacaa attcatggat cctaattaaa atttactata aaactggaat catttattac      960

ttcctt                                                                   966


<210>  452
<211>  725
<212>  DNA
<213>  Homo sapiens

<400>  452
tttttttttt tttaaaagag atgggttctc actatgttgc ccataatgtt tatgagatta       60

agttcatctt ttttatctga gtagtatttt attgtatgaa tataccacca tttatttatc      120

tgttggttat ttccagtttt gggctataat ccaaaatgct tttttcaaac aataggctat      180

atatcattaa tgtccgttta tcagcagtat aaaatatctt accataaata ttaataaaag      240

aagcattcat atataaaata tagatatttc aaaccctaca gagggccttt taatgattaa      300
```
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```
atattttgtc cttacaaaaa ggtccaggta attacaccca tgaggttaac ctgccttagt      360

gcaggactta aaataaggct tctcctgcca tctctctcca tttgtagaat gtgaaattct      420

ttaaaatgca tcctatatta ggaatactat agctgtgcac tggtgtttgt tctcttcttt      480

aaactcggga ccgtatatat ctgctcaaat tgcccaagta tacatatgct gcactccatc      540

aagtgtcagg ccacattcta tcagcacagc gtgactgcct atcagtgaca atataagtga      600

gctctatttg gatccctctt accctacctt ttatatttat gacagcatta tcataaaact      660

ccaatattct tcaataactt acatgtttgt tgtaggataa aattattacc ctcaatgaac      720

tacat                                                                  725
```

```
<400>   453
accagcttct tcacaggttc cacgagtcat gtcaacacag cgtgttgcta acacatcaac       60

acagacaatg ggtccacgtc ctgcagctgc agccgctgca gctactcctg ctgtccgcac      120

cgttccacag tataaatatg ctgcaggagt tcgcaatcct cagcaacatc ttaatgcaca      180

gccacaagtt acaatgcaac agcctgctgt tcatgtacaa ggtcaggaac ctttgactgc      240

ttccatgttg gcatctgccc ctcctcaaga gcaaaagcaa atgttgggtg aacggctgtt      300

tcctcttatt caagccatgc accctactct tgctggtaaa atcactggca tgttgttgga      360

gattgataat tcagaacttc ttcatatgct cgagtctcca gagtcactcc gttctaaggt      420

tgatgaagct gtagctgtac tacaagccca ccaagctaaa gaggctgccc agaaagcagt      480

taacagtgcc accggtgttc caactgttta aaattgatca gggaccatga aagaaacttt      540

gtgcttcacc gaagaaaat atctaaacat cgaaaaactt aaatattatg gaaaaaaaac      600

attgcaaaat ataaataaa taaaaaaggg aaggaaact ttgaaccttta tgtaccgagc      660

aaatgccagg tctagcaaac ataatgctag tcctagatta cttattgatt taaaa         715
```

<212> DNA
<213> Homo sapiens

<400> 454
acattctgga aaaggcaaaa gggaggaaga actgattagt ggttagccca gggttagagt   60

tggggagagg atataatgag ggaacttttg tggattctgt accatgatta tgattacaca   120

aacctatgca tacattgaaa cacatagaac tatacgttga aaaaagtgaa tctgcctgta   180

tgtaaattta aagaaaaat attttttaa aaaacagat gcttcttaac acattatcat   240

ctatgtcagt ttaacagtta gtagacttag gccaggtgtc atggctcact cctgtaatcc   300

cagtgctttg ggagtctgag gtgggacgat ctcttgagac taggagggag tttgagacaa   360

acctaggcaa tgtaatgaga ctctttctct acaaaaaatt ttaaagttat ctggacatgg   420

tggtgcctgc ctgtagtccc agctacttgg gaggctgagg tgggaggatt ccttgagccc   480

agaagttcaa ggctacagtg tgctatgata gagccactgc actccagcct gggcaaccag   540

gtgagacctt gtctctaaaa tgaataaata aat   573

<210> 455
<211> 498
<212> DNA
<213> Homo sapiens

<400> 455
tggtctttca cccagccagg gagaaggttc ttcgctcagt atgaagaaaa gcaacccaaa   60

actctcaatc tgatttgttt ttgtttatgt cgatgccctg tagtttgaaa gtgaagtaaa   120

gatttagaat tcacctaagt ccaaaggaaa acacgtggtt tttaaagcca ttaggtaaaa   180

aaagttctca ataaaggcat tacaattttt taggtttaga aagatggact tttctgataa   240

atcttggcag acatctaaaa aaaaaaccat atttttcaca agaaaatgca agttactttt   300

tttggaaata atactcactg attatggata aaatggaata ttttcagata ctatattggc   360

tgtttcaaaa tagtactatt ctttaaactt gtaatttttg ctaagttatt tgtctttgtt   420

gtatctataa atatgtaaaa aatatttaaa tagatgtacc tgttttgctt tcacacttaa   480

taaaaaattt tttttttgt   498

<210> 456
<211> 732
<212> DNA
<213> Homo sapiens

<400> 456
cgggatccct agtataacac attcagtgtt cccctttcag tcttactact ttgaccgcga   60

tgatgtggct ttgaagaact ttgccaaata ctttcttcac caatctcatg aggagaggga   120

acatgctgag aaactgatga agctgcagaa ccaacgaggt ggccgaatct ccttcagga   180

tatcaagaaa ccagactgtg atgactggga gagcgggctg aatgcaatgg agtgtgcatt   240

acatttggaa aaaatgtgaa tcagtcacta ctggaactgc acaaactggc cactgacaaa   300

aatgacccc atgtgagtat tggaacccca ggaaataaat ggaggaaatc atttgcctta   360

gggattggga aagctgccca ctaactgtct tccccattgt tttgcagttg tgtgacttca   420

ttgagacaca ttacctgaat gagcaggtga aagccatcaa agaattgggt gaccacgtga   480

ccaacttgcg caagatggga gcgcccgaat ctggcttggc ggaatatctc tttgacaagc   540

acaccctggg agacagtgat aatgaaagct aagcctcggg ctaatttccc catagccgtg   600

gggtgacttc cctggtcacc aaggcagtgc atgcatgttg gggtttcctt tacctttct   660

ataagttgta ccaaaacatc cacttaagtt ctttgatttg taccattcct tcaaataaag   720

aaatttggta cc   732

<210> 457
<211> 465
<212> DNA
<213> Homo sapiens

<400> 457
tgcgcagacc agacttcgct cgtactcgtg cgcctcgctt cgcttttcct ccgcaaccat   60

gtctgacaaa cccgatatgg ctgagatcga gaaattcgat aagtcgaaac tgaagaagac   120

agagacgcaa gagaaaaatc cactgccttc caaagaaacg attgaacagg agaagcaagc   180

aggcgaatcg taatgaggcg tgcgccgcca atatgcactg tacattccac aagcattgcc   240

ttcttatttt acttctttta gctgtttaac tttgtaagat gcaagaggt tggatcaagt   300

ttaaatgact gtgctgcccc tttcacatca aagaactact gacaacgaag gccgcgcctg   360

```
cctttcccat ctgtctatct atctggctgg cagggaagga aagaacttgc atgttggtga      420

aggaagaagt ggggtggaag aagtggggtg ggacgacagt gaaat                      465



<210>   458
<211>   788
<212>   DNA
<213>   Homo sapiens

<400>   458
tataaataca ctccgggatg atttacccccc ggaggtcagc tagtaaaata catgagtaga       60

attccttaaa gtatgtgata attgctcatc actatccaag tgtgacataa atcataaaaa      120

gaattgacaa aatcagggtc gcaaagagaa ttgaaaaaaa tctgtcacaa ccaaaattta      180

aattgacctc tgtcctagag tatgagagcc acactgaaca gaaaaaccag ataaatcttt      240

tataaaatat tcatttgcag ccccattaac gttgcttgtc accccacctc cccatgtcct      300

tggacaaact gaatgtatag taacatcatc ccaggccagg cgcggtggct catgcctgta      360

atcccagcac tttgtgaggc taaggcaggc agatcaggag gtcaggagtt caggaccagc      420

ctggccaaaa aggtgaaact ccgtctctac taacaataca aaaattagct gggtgcggta      480

gtaggcgcct gtaatcccag ctactcggga ggctgaggca ggagaattgc tcaaacccgg      540

aaggtggagg ttgcagtgag ctgagatcgt gccactgcac tccagcctgg gtgacagagc      600

aagactctgt ctcggggagg ggggtggcgg agataaagaa ataacatcat cttatactgt      660

caagctcaag gtgtctgcag ccttatcttc aggggaagtt gtgtctttct cagggaagat      720

acagatttca atttagagca agacagagag aagttacatt cagagaggaa aatgcagtag      780

tctaactg                                                              788



<210>   459
<211>   423
<212>   DNA
<213>   Homo sapiens

<400>   459
gcggccgcgc tcttttcaat ttttaaaaag aagtttgttt tccatttcag taatttctgc       60

tttgatcttc cttatgtcct cctattgagt tgatcagctt ctttattct tgcctttttct      120
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cctctgtgtg cccttctat taacgtattt acccttaggc tgggcacaat ggctgatgcc   180

tgtaatcccct gcactttggg aggccgaggc aggtggatca cctaaggtca ggagttcaag   240

accagcctgg ccaacatggt gaaacctggt ctctactaaa aacacaaaaa ttagccaggc   300

atggtggtgt gcacctgtaa tcccagctac tcaggaggct gaggcaggag aattgcttga   360

acctgggagg cggagattgt gccaaagcac tccagcctgg caacaaaat gagactttgt   420

gtc   423

<210> 460
<211> 231
<212> DNA
<213> Homo sapiens

<400> 460
caccaggctg tcttcagata cttcatacag aaatgagcct ccctgtgggg tcctcttccc   60

tccttcagcc tgtccatcaa cacagcattg cgggatcctt accatggcat ccagccctgg   120

agatgcttca ggaaagttgc aggtccatgc tgcaggacag gctcagatca gcagagacgc   180

atctcacatc gggctgtgaa attcaagttg agctgcaatt ggcaatgaga a   231

<210> 461
<211> 687
<212> DNA
<213> Homo sapiens

<400> 461
gttattcact gagaccgtgc cccggttatg aggttgtacc agaaagcaag tattcactat   60

gcacactatt caccgctcac cctagcattg aagccagcct gtagcctgaa agcctttgct   120

ttgagggcag gtctttcccc aaaatgcaga cacgaaggtg caaagtgaag ctgccagtct   180

tgcaaaagat gtaacttgtc acgaaggcca cgagtggcag ggagagctgt cccacatttg   240

cggaagtggc tatgtgagga cgggggaggc gggtcccta gagatgagac aatcataagg   300

ggagatatca gagaaaatcg taaggggagc agatggttgt caagagaata ggctgaccat   360

cgaaggactg gcagaagctt tcagaaaacc actggacggc tgggcacagt ggcttaggcc   420

tgtaatccca gcactttggg aggctgacgc aggtgaatca cttgaggtca ggagttccag   480

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accagcctgg ccaacatggt gaaaccccat ctctacagaa aatataaaaa ttagccaggc        540

gtggtggcac aagcctagaa tcccagctac ttgggaggct gaggcaggcg aatggcttga        600

acccaggagt cagaggctgc agtgagtcga gattgttcca ctgcactcca gcctgggtga        660

cagtgcaaga ctccttccaa aaaaaaa                                           687


<210>  462
<211>  874
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (717)..(717)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (754)..(754)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (810)..(810)
<223>  n is a, c, g, or t

<400>  462
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ggcagagcag aggtgctcat cagcactgta ggcccggaag attgtgtggt cccgttcctg        120

acccggccta aggtccctgt cttgcagctg datagcggca actacctctt ctccactagt        180

gcaatctgcc gatatttttt tttgttatct ggctgggagc aagatgacct cactaaccag        240

tggctggaat gggaagcgac agagctgcag ccagctttgt ctgctgccct gtactattta        300

gtggtccaag gcaagaaggg ggaagatgtt cttggttcag tgcggagagc cctgactcac        360

attgaccaca gcttgagtcg tcagaactgt cctttcctgg ctggggagac agaatctcta        420

gccgacattg ttttgtgggg agccctatac ccattactgc aagatcccgc ctacctccct        480

gaggagctga gtgccctgca cagctggttc cagacactga gtacccagga accatgtcag        540
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cgagctgcag agactgtact gaaacagcaa ggtgtcctgg ctctccggcc ttacctccaa   600

aagcagcccc agcccagccc cgctgaggga agggctgtca ccaatgagcc tgaggaggag   660

gagctggcta ccctatctga ggaggagatt gctatggctg ttactgcttg ggagaanggc   720

ctagaaagtt ttgcccccgc tgcggcccca gcanaatcca gtgttgcctg tggctggaga   780

aaggaatgtg ctcatcacca gtgccctccn ttacgtcaac aatgtccccc accttgggaa   840

catcattggt tgtgtgctca gtgcccgatg tctt   874

<210> 463
<211> 585
<212> DNA
<213> Homo sapiens

<400> 463
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aaaaaaatta aattaaaata taataaattt cttgccgggc gcagtggctc acacctgtaa   120

tcccagcact ttgggaggcc gaggtgggcg atcacgaag tcaggagatt gagaccatcc   180

tggctaatac agtgaaaccc cgtctctact ataaatacaa aaaattagct gggcatggtg   240

gcgggcgtct gtagtcccag ctactcagga gtctgaggca ggagaatggt gtgaacccgg   300

gaggcggagc ttgcagtgag ccgagatcgt gccactgcaa tccagcctgg cagcagaac   360

gagactccat ctcaaataaa taaataaata aatgaattt cagctagaag agccttattc   420

cattttcctt tttattaaac atctggcata agttggtaag tatgtgaagt ttatcatata   480

ttcttatgcg aattattatt ttcgcctttt tttttataat tctgtctggg atttgaatag   540

tagagtttga attcaggaag gacacctgtg ataggacaat aaaat   585

<210> 464
<211> 305
<212> DNA
<213> Homo sapiens

<400> 464
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aaactgaggt tcaacaatat tgtatttgag atgggaaagt taaagaaatg caataatgta   120

aataatactt aagaaaataa gatctcagga aactgtgtat actctgtact tttatgcaac   180

tttatcagat catttcagta tatgcatcaa ggatatagtg tatatgacat gaactttgag   240

tgcaaaaact gtactatgta ccttttgttt attttgctgt caacatctaa ataaaggttt   300

ttttg   305

<210> 465
<211> 422
<212> DNA
<213> Homo sapiens

<400> 465
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tgaaggtgac ttaaacagct taaagtttag tttaaaagtt gtaggtgatt aaaataattt   120

gaaggcgatc ttttaaaaag agattaaacc gaaggtgatt aaaagacctt gaaatccatg   180

acgcagggag aattgcgtca tttaaagcct agttaacgca tttactaaac gcagacgaaa   240

atggaaagat taattgggag tggtaggatg aaacaatttg gagaagatag aagtttgaag   300

tggaaaactg gaagacagaa gtacgggaag gcgaagaaaa gaatagataa gatagggaaa   360

ttagaagata aaaacatact tttagaagaa aaaagataaa tttaaacctg aaaagtagga   420

ag   422

<210> 466
<211> 833
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (830)..(830)
<223> n is a, c, g, or t

<400> 466
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cctctgcctc gaggctgcgg ttccactgac ccatactact tgccttcagg aaagagaaat   120

ggtgtaggaa ggctgtggat gaagacgctt acattcatga aggatttgga taggcgaaca   180

tgagcttttc caccaaattt cagaattta agaaatgcct taaattattt cttaaaaatc   240

aatttggggc agacgagaag ttctgataat agtttttagg gaacatgata aaattctgac   300

cttagaagtg gtataccagt ttgagaagaa gaacaagcta taaacggtgt agataacatt   360

cacggctatt taagaaagag ttactaaggg aaaccagaat gacttaagag tgttactctt   420

cttttctga gagaacaata gcatcatctc agaaagcctt tcatgccatt aataggtaag   480

aatctgggct tcttggacca tgggttagac tttcttacaa aaccataata tgcatttcct   540

agcaaaattt atgctattac atttccttat ctcaacaaag actggtaaat tcagtactta   600

ttcctcaatt ttcctaccct taaaatgggg atattctgcc tctccaagga atgctgggaa   660

caagcaagtc ctcatgttag gggtctttga gttttcatgg aagtttaggt tatttatatg   720

atgacatagt tgtcaactta ctttcaggat ggacttttct tttgtgagtt tgtgacctaa   780

atacaatagt tgttatgcat gtccagttta tggaagtacc actgcaatan cag   833

<210> 467
<211> 594
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (54)..(54)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (83)..(83)
<223> n is a, c, g, or t

<400> 467
cagtgcagcc aagtatcaca ccactgcact ccagtcctgg acaacagaaa cgantactcc   60

atatcaaaaa aattaaatta aangataata aatttcttgc cgggcgcagt ggctcacacc   120

tgtaatccca gcactttggg aggccgaggt gggcggatca cgaagtcagg agattgagac   180

catcctggct aatacagtga aatccccgtc tctactataa atacaaaaaa ttagctgggc   240

atggtggcgg gcgtctgtag tcccagctac tcaggagtct gaggcaggag aatggtgtga   300

acccgggagg cggagcttgc agtgagccga gatcgtgcca ctgcaatcca gcctgggcag   360

cagaacgaga ctccatctca aataaataaa taaataaaat gaatttcagc tagaagagcc   420

ttattccatt ttccttttta ttaaacatct ggcataagtt ggtaagtatg tgaagtttat   480

catatattct tatgcgaatt attattttcg cctttttttt tataattctg tctgggattt   540

gaatagtaga gtttgaattc aggaaggaca cctgtgatag gacaataaaa tcta   594

<210> 468
<211> 112
<212> DNA
<213> Homo sapiens

<400> 468
gaaagcacat atgatataca tgtgtgtcat atgtattatt ttgtttgcca tctgagtctt   60

caaaatttgt tacagaatac ctgcatatta atatttcaag gtatggatta at   112

<210> 469
<211> 40
<212> DNA
<213> Homo sapiens

<400> 469
ctgagtatta actaaaaaaa aaaaaaaaaa aaaaaaaaaa   40

<210> 470
<211> 933
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (740)..(740)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (801)..(801)

<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (878)..(878)
<223> n is a, c, g, or t

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gttcccttgg gtcttaagag actcactgtt ggaccaggcg tggtgactca cgcctgtaaa   120

accagcactt tgggaggccg aggcgggcgg atcagttgag gtcaagagtt caagaccagc   180

ctgaccaagg tgctgaaacc ccgtctctac taaaaataca aaaattagcc aggcatggtg   240

gtgtgcgcct gtaatcccag ctactccaga ggctgaggca ggagaatctc ttgaacccag   300

gaggtggagg ttgcagtgag tcgagatcat gccactgcac tccagcctgg gtgacagagc   360

gagactccgt cttagaaaaa aaaaaaaaaa aaaaagaac ctcacagttc agcagggttc   420

tagcatgaga caatgaggac aagggtaggt gagcaggtgg aaagagtgag aacaggtcaa   480

ttgtgatgga gaaaataata aagacagaaa aggcagaaga ctgcctggca gaagacctgt   540

cccagcagat acaaaaatac agacaacagg agccagcata gacccttgac ctgtgtaagt   600

ctttctcagg ccttctttta agtagaaaca tgcctttgaa aaaagtttt aataaacagg   660

aaaatcataa atccctattt acataaataa tatatcctgg tcttattctt aaaaccattg   720

atttttcacg gctcattaan aaagctgggc gaggtggctc acgcccgtca tcctagcact   780

ttgggaggcc gaggcgggca natcacaagg tgaggagttg ggagaccagc ctgaccaaca   840

cggtgaaacc cagtctctac taaaaataca aaaattanct gggggtggtg gtgtgtgcct   900

gtaatccaag ctactcggga ggctgaggca gga   933

<210> 471
<211> 896
<212> DNA
<213> Homo sapiens

<400> 471
cttactacct ccaacatgaa acaagcagcc ccgcacttct cgaaggtctg agttacttgg   60

aatcgtttta ccacatgatg gacagaagga atatttcaga tatctctgaa aacctcaagc   120

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gttaccttct tcagtatttt aagccagtga ttgacaggca aagctggagt gacaagggct      180

cagtctggga caggatgctc cgctcggctc tcttgaagct ggcctgtgac ctgaaccatg      240

ctccttgcat ccagaaagct gctgaactct ctcccagtg gatggaatcc agtggaaaat       300

taaatatacc aacagatgtt ttaaagattg tgtattctgt gggtgctcag acaacagcag      360

gatggaatta ccttttagag caatatgaac tgtcaatgtc aagtgctgaa caaaacaaaa      420

ttctgtatgc tttgtcaacg agcaagcatc aggaaaagtt actgaagtta attgaactag      480

gaatggaagg aaaggttatc aagacacaga acttggcagc tctccttcat gcgattgcca      540

gacgtccaaa ggggcagcaa ctagcatggg attttgtaag agaaaattgg acccatcttc      600

tgaaaaaatt tgacttgggc tcatatgaca taaggatgat catctctggc acaacagctc      660

actttcttc caaggataag ttgcaagagg tgaaactatt ttttgaatct cttgaggctc      720

aaggatcaca tctggatatt tttcaaactg ttctggaaac gataaccaaa aatataaaat      780

ggctggagaa gaatcttccg actctgagga cttggctaat ggttaatact taaatggtca      840

atagaaaaag taggctgggc gcggtggctc acgcctgtaa tcccagcact ttggga         896
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<210> 472
<211> 158
<212> DNA
<213> Homo sapiens

<400> 472
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aaaatttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt       60

tttttttttt tttttttttt tttttttttt tttttttttt tttttttca gtgttaaagt      120

aggtttgtcg acgcggccac gaattcccg gggaccaa                               158
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<210> 473
<211> 896
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (58)..(58)
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<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (102)..(102)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (112)..(112)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (159)..(159)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (234)..(234)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (236)..(236)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (293)..(293)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (322)..(322)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (434)..(434)
<223> n is a, c, g, or t

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<222> (476)..(476)
<223> n is a, c, g, or t

<220>
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<222> (483)..(483)

<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (502)..(502)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (548)..(548)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (556)..(556)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (781)..(781)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (813)..(813)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (868)..(868)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (896)..(896)
<223> n is a, c, g, or t

<400> 473
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ttcggaaacg gagtctcgct ttctcgccca ctctggagtg gngcagtggg gnggtctcag   120

ctcaccacag cctccacctc ctgggcccaa gcgatcctnt cacctcagcc tcctgcgtag   180

ctgggactac aggcgtgcac caccattccc aggtaatttt tgtatttttt gtananacag   240

ggtttcactg ttgttgccca ggctggtctc gaactcctgc ttcagtctgc canaatgctg   300

gattctaggc gtgagccacc gngcctggcc caaaagttac ttttcttaca gaagcaaagc   360

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tttaatgcat tttactgaat gcttatagct ttgtagatac tgaaaagagt atgagcgtca        420

catacagaca catntaacag cactgcctcc aaccagcccc tacccactgg tcaggngagt        480

aanaatcaaa attcttttct gngagtggaa cggaaatttc atctctcctc ctcaggcaag        540

tagttaanag gctggnggga gtcatggccc cattttgttc aaaatacaag ctccacagga        600

acaaaaggct gaactgctca cctcccaact gatgaacctc gtctttgttc catgtcaaag        660

gggcctttgt gttactgcag cagaaactcc agctatcaaa ccatcaggca ccaaaagtaa        720

aactcctttc tctaaaaaga cctctcttta cctgagcctt tcaatgcatc tttgcccca        780

nataatcctg gatgagataa tccccagagg aanaccagcg cttgcctagt gaaattatac        840

tatgagacaa gggtaaaaga cctcaaanac cgggttggca ggtaagggag tagggn          896
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<210> 474
<211> 350
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t

<400> 474
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tcngtggcac ccgtttccgg caccttcaga ctctgaagag ccacctgcga atccacacag         60

gagagaaacc ttaccatgta cgtaagcctc ttgaggccgc tctctgacct gcggggatgt        120

ggagggcagg gaaggaggtg gagcgcaggg aaggaggtgg agcagggagg cagtggaact        180

gtttgctccc atctcaagca cacagtgggg caaccactac gctaatggtt ggaagaccta        240

gatctgggcc caatggccag acaccctgct tgaccttggc ccaagcatta ggggactcat        300

ctttaaaatg agggtatggg actagatgat ctgggcctta ggagaggagt                   350
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<210> 475
<211> 835
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (829)..(829)
<223> n is a, c, g, or t

<400> 475
cggctnctac cctgcggaga tcacactgac ctggcagtgg gatggggagg accaaactca   60

ggacaccgag cttgtggaga ccaggccagc aggagatgga accttccaga agtgggcagc   120

tgtggtggtg ccttctggag aagagcagag atacacgtgc catgttcagc acgaggggct   180

gccggagccc ctcaccctga gatggaagcc gtcttcccag cccaccatcc ccatcgtggg   240

catcgttgct ggcctggctg tcctggctgt cctagctgtc ctaggagcta tggtggctgt   300

tgtgatgtgt aggaggaaga gctcaggtgg aaaaggaggg agctgctctc aggctgcgtc   360

cagcaacagt gcccagggct ctgatgagtc tctcatcgct tgtaaagcct gagacagctg   420

cctgtgtggg actgagatgc aggatttctt cacacctctc ctttgtgact tcaagagcct   480

ctggcatctc tttctgcaaa ggcatctgaa tgtgtctgcg ttcctgttag cataatgtga   540

ggaggtggag agacagccca cccccgtgtc caccgtgacc cctgtcccca cactgacctg   600

tgttccctcc ccgatcatct ttcctgttcc agagaagtgg gctggatgtc tccatctctg   660

tctcaacttc atggtgcgct gagctgcaac ttcttacttc cctaatgaag ttaagaacct   720

gaatataaat ttgttttctc aaatatttgc tatgaagggt tgatggatta attaaataag   780

tcaattcctg gaagttgaga gagcaaataa agacctgaga accttccana atccg   835

<210> 476
<211> 437
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (18)..(18)
<223> n is a, c, g, or t

<400> 476
tgaaacaaaa tgaatttnta tgggtaagag agggtaatat tttagagttg tgttacaaaa   60

ctacaaattt ttattaaatt aataaatcag aatactaaat ccatgtgttt ttttctttct   120

taaaaaatat cttttggctg ggcacggtag ctcatggctg taatcccagc actttgggag   180

gctgaggtgg gtggatcgcc tgatgtcagg agttcaagac cagcctggtc aacatgttga   240

aaccccatct ctactaaaaa tataaaaatt agccggtgtg gtggtgggcg cctgtaatcc   300

cagctactca ggaggctaag gcaggagaat tgcgtgaacc caggagttca gtgatgtagc   360

ggggagctga gattgtgcca ctacactcca gcctggatga cagagtgaga ctccatctca   420

aaaaaaaaaa aaaaaaa   437

<210> 477
<211> 369
<212> DNA
<213> Homo sapiens

<400> 477
gcataatgtg aggaggtgga gagacagccc accccgtgt ccaccgtgac ccctgttccc   60

atgctgactt gtgtttcctc cccagtcatc tttcctgttc cagagaggtg gggctggatg   120

tctccatctc tgtctcaact ttatgtgcac tgagctgcaa cttcttactt ccctactgaa   180

aataagaatc tgaatataaa tttgttttct caaatatttg ctatgagagg ttgatggatt   240

aattaaataa gtcaattcct ggaatttgag agagcaaata aagacctgag aaccttccag   300

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa   360

aaaaaaaaa   369

<210> 478
<211> 642
<212> DNA
<213> Homo sapiens

<400> 478
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gctaccaagt ttgaagggga ccatgagtct tcaggctgga gcttccaaac cagatgaaaa   120

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ccccacaatt aacctgcagt ttaagatcca gcagctggcc atttctggac tcaaggtgaa      180

tcgtctggat atgtatggag aaaagtacaa acccttaag ggcataaaat acatgaccaa       240

agctgggaag ttccaagttc gaacctgaag ggagcatttg ctgagggaat agtcttgcac      300

attttttcat ttcttacttg tctaaaagta aaaaaaata tcagcctgtc tcctaggtca       360

gtcccctcct ggacccaccc gctccctttt ttccttagcc ttcagtgcca tggaactaat      420

caagggagga aaaggtcacc agggagaact ggacagaact gaaacacagc aacaccagtt      480

ctcaaggaca aggtgtgtga tgggggtagg aagcttggtg cttatgtaac cattttaaac      540

gtggtttcta taggaaagac caacatttgt ttagcttgct tggctttaat tatctaaagc      600

caatgaaaga cttctttgtt gatttttaa gatagaaaga tt                         642
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<210> 479
<211> 912
<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (808)..(808)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (855)..(855)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (895)..(895)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (906)..(906)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (910)..(910)
<223> n is a, c, g, or t

<400> 479
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gggtgaatgg ggtatttgca agcagtgaat gaggaggcct ggaaccaatc ttctgctgat   120

attgaggcac aactgaaaaa ggtatattac ttaaatctct tattgtattg taaactgtat   180

aagtaatgaa attaaaaggc agaaattgtc agactgaata aaatgaaaag accaaacaat   240

atgctgctta caagaaacac aattcaaata taaggacaca attagtttaa aggaaaagaa   300

ctggaaaaga tataccatga taacacaagt cagaagaaag ctgctgtgga tatattaata   360

tgagatgtag atttcagagc agtgaatatt gccaggcata aagaaagtta ttacataata   420

attaaggtat cagttcatca agaagatgta ataaccctaa gtatttatac aactaatatc   480

agagcttcaa aatacatgaa gcaaaaacca gtggaattga taggagaaac acacaattac   540

acaattatag tcagaatttt caacatatct ttctcaatgg agaaaacaac tagacaggaa   600

atcattaagg atatagatga tttaaattat atgatcaact acctggacgt aattggcatt   660

tatggaacac tgcaccacca acagcagagt acatattatt ttcaagtaca cagaaaacag   720

ttaccaatat agaccatttt ctgggtcata aaacacatct caataaatgt aaaacaatta   780

atgttatata aagtatgtgc tctgaccnca aaggaattag agatcaataa aagaacatct   840

ttgaaaaatc tcacntattt aaaaactaat aactcacttc taaataactc ctgtntcaag   900

agaatnaaan gg   912

<210> 480
<211> 873
<212> DNA
<213> Homo sapiens

<220>
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<222> (850)..(850)
<223> n is a, c, g, or t

<400> 480
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gtcaagggcc atggggcag gtagctctgc ctgcaaagcc cacaagcatg tcagatcacc   120

tgggctgcag acagacaaac acctgagctg ttctgaatac cttcaggttc ctggcctcgc   180

tgagcaagtg cagaaatttt taccttcaag gatcagggtt tttctgtttg tttgtttttt   240

aacacacaca tatgtgaaca aagagtatgc gtttgtactg gcagaagaag cgtctggtaa   300

gacaaccagc aagttaacaa tggtcacctc cagaaatggg ctgggtaaac caaagaattt   360

ttttgttttt gtttttttg agtcagggtc tagctctgtc acccaggctg gaacgcactg   420

gtgtgatcac ggctcactgc agccttgacc tccctggctc aagcaatcct cccagctcag   480

cctcctgagt cgttgggact acaggcacgt gccaccacgc ctgacacatt ttttaaattt   540

ttgtagagac agtgtttcac catgttgccc aggcaggtct caaactcctg ggctcaagtg   600

gtcctccagc ttcagcctcc caaagtgcta ggattatagg tgtgagccac agtgcccagc   660

cccgtagtgg agaatttctg ttgaatgaac caaaagcaac tgccaacctc tccatgcacc   720

atgtgtttca gaggagaaag cacagtgaag aatgcagtgt gttctgaggt cctgtcaccc   780

ctgaggctgt gtgtgtcctt tgccaaatta aagagtctta ctgaatgcgg tgcatccagg   840

agacaggccn aggtttggac tggtaaaaaa aaa   873

<210> 481
<211> 778
<212> DNA
<213> Homo sapiens

<220>
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<222> (12)..(12)
<223> n is a, c, g, or t

<220>
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<222> (79)..(79)
<223> n is a, c, g, or t

<220>
<221> misc_feature

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<222>  (531)..(531)
<223>  n is a, c, g, or t

<220>
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<222>  (741)..(741)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (775)..(775)
<223>  n is a, c, g, or t

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tgacccacca ccccatctnt gaccatgagg ccaccctgag gtgctgggcc ctgggcttct     120

accctgcgga gatcacactg acctggcagc gggatggcga ggaccaaact caggacaccg     180

agcttgtgga gaccagacca gcaggagaca gaaccttcca gaagtgggca gctgtggtgg     240

tgccttctgg agaagagcag agatacacat gccatgtaca gcatgagggg ctgccgaagc     300

ccctcaccct gagatgggag ccatcttccc agtccaccgt ccccatcgtg ggcattgttg     360

ctggcctggc tgtcctagca gttgtggtca tcggagctgt ggtcgctgct gtgatgtgta     420

ggaggaagag ttcaggtgga aaaggaggga gctactctca ggctgcgtcc agcgacagtg     480

cccagggctc tgatgtgtct ctcacagctt gaaaagcctg agacagctgt nttgtgaggg     540

actgagatgc aggatttctt cacgcctccc ctttgtgact tcaagagcct ctggcatctc     600

tttctgcaaa ggcacctgaa tgtgtctgcg tccttgttag cataatgtga ggaggtggag     660

agacagccca cccttgtgtc aactgtgacc ccctgttccc atgctgacct gtgtttcctc     720

cccagtcatc tttttgttc ncaataggtg gggcctggat gtctccatct ctgtntca       778


<210>  482
<211>  666
<212>  DNA
<213>  Homo sapiens

<400>  482
ttataaggta cttttaaggt attttagttg tcttagtcta tatttctgta ctcacctttc      60

tttatccact catcagttga tgggcatgta ggttggttcc atatctttgc aattctgaat     120
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tgtgctgtga tcaggtgtct ttttagtata atgatttact ctcctttggg tagatacccа      180

gtagtgggat tgctggatcg aatggttttt ataattttct attttaccac agtttctctc      240

tgcatttttc ctctttgacc actaaccatg tgaaattctc atattgacct ttataatgat      300

catgaactct tagtatcatt gggaaggcca catttgccac ttatgattgt aaaccttatc      360

ctccattttt cctgttattg ttggtgcaaa aagcacctat tataccagga ctttaaaaat      420

cagtctgata agtctttgat aagtctaata ataataactg ataagtccat tgaatttgct      480

tctgattact ttttctttag tagctaaaca tgtatgtact cctatgatta caatgaacac      540

tcctctccat ttaaattaat tatttacatt gatgaaatag caaaatgtta atgactaaat      600

actgtcttgg ttttttcgtt ccaggtcagt caatattaac ttcttataat tttctttttt      660

ttcttt                                                                 666


<210>   483
<211>   630
<212>   DNA
<213>   Homo sapiens

<400>   483
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gagccaaagc taagacccc gaaaccagac gagctaccta agaacagcta aaagagcaca       120

cccgtctatg tagcaaaata gtgggaagat ttataggtag aggcgacaaa cctaccgagc      180

ctggtgatag ctggttgtcc aagatagaat cttagttcaa ctttaaattt gcccacagaa      240

ccctctaaat ccccttgtaa atttaactgt tagtccaaag aggaacagct ctttggacac      300

taggaaaaaa ccttgtagag agagtaaaaa atttaacacc catagtaggc ctaaaagcag      360

ccaccaatta agaaagcgtt caagctcaac acccactacc taaaaaatcc caaacatata      420

actgaactcc tcacacccaa ttggaccaat ctatcaccct atagaagaac taatgttagt      480

ataagtaaca tgaaaacatt ctcctccgca taagcctgcg tcagattaaa acactgaact      540

gacaattaac agcccaatat ctacaatcaa ccaacaagtc attattaccc tcactgtcaa      600

cccaacacag gcatgctcat aaggaaaggt                                       630
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<210> 484
<211> 612
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (461)..(461)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (501)..(501)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (510)..(510)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (563)..(564)
<223> n is a, c, g, or t

<400> 484
ggccaccggg tgcaaggtca gggctggggt ggaggctggg aagcccaggg cttggcccac   60

tgtggccgcc ttgtgtggtc actgctttcc tgggcctgct gtgagctccc tctaggaccc   120

caggcctgtc tggtgggtca ctgtgaccac caccttgcac agcacctggc gcgtggcagg   180

tgctcaaaca ttacttgttt cggaatgaac ttcatcttgc tcttggcttt ttgactaatg   240

ctgtggaaca tctgactaat tagtgactct ttggggcccc cagtttccca gctataaagt   300

ggtaatatta agataataat tcggccgggc gcggtggctc acgcctgtaa tcccagcagc   360

actttgggag gccgaggtgg gcagatcacg aggtcagaag atcgagacca tcctggctaa   420

cacggtgaaa ccccatctct actaaaaata caaaaaatta nccgggcgtg gtggcgggcg   480

cctgtagtcc cagctactca ngaggctgan gcaggagaat ggtgtgaacc cgggaggcag   540

aggttgcagt gaaccaagat cgnnccactg cactccagcc tgggcaacag agcgagactc   600

catcttaaaa aa   612

<210> 485
<211> 362
<212> DNA
<213> Homo sapiens

<400> 485
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gtaaccgcgg gttgcacgca tgcgtgctga aaagcctttc accctcacgt ggtttctttt   120

ttaaccagtc atcaagcgag gctcgcgcgc aggccccgcg ttggaaaatg gcggggaagc   180

tgaaacctct gaatgtggag gcgccagaag ctgctgagga ggctgaaggt agtgagggca   240

agtgggctgc actcctttct ctccaaccag ggcagaaagg agggaggatt cgtcccatta   300

caataatgaa ataatgatat tctaattttt ttaaataaaa tgttaagcct tttgttattg   360

aa   362

<210> 486
<211> 854
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (269)..(269)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (488)..(488)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (557)..(557)
<223> n is a, c, g, or t

<220>
<221> misc_feature

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<222> (679)..(679)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (718)..(718)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (748)..(748)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (755)..(755)
<223> n is a, c, g, or t

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<221> misc_feature
<222> (805)..(805)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (810)..(810)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (843)..(843)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (852)..(852)
<223> n is a, c, g, or t

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cctacagcgg gcctgccgcc tgctcgtggc cgtctgcgct ctgcaccttg gcgtcaccct   120

cgtttactac ctggctggcc gcgacctgag ccgcctgccc caactggtcg gagtctccac   180

accgctgcag ggcggctcga acagtgccgc cgccatcggg cagtcctccg gggagctccg   240

gaccggaggg gcccggccgc cgcctcctnt aggcgcctcc tcccagccgc gcccgggtgg   300

cgactccagc ccagtcgtgg attctggccc tggcccccgct agcaacttga cctcggtccc   360

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agtgccccac accaccgcac tgtcgctgcc cgcctgccct gaggagtccc cgctgcttgg      420

taaggactcg ggtcggcgcc agtcggagga ttgggacccc cccggatttc cccgacaggg      480

tcccccanac attccctcag gctggctctt ctacgacagc cagcctccct cttctggatc      540

agagttttaa atcccanaca gaggcttggg actggatggg agagaaggtt tgcgaggtgg      600

gtccctgggg agtcctgttg gaggcgtggg gccgggaccg cacagggaag tcccgaggcc      660

cctctagccc caaaaccana gaaggccttg gagacttccc tgctgtggcc cgaggctnag      720

gaagttttgg agttttgggt ctgcttangg cttcnagcag ccttgcactg agaactttgg      780

tagggacctc gagtaatcca ctccnttttn gggactgacg tgaggctccc ggtggggaaa      840

ganactgacc tntc                                                       854


<210>  487
<211>  843
<212>  DNA
<213>  Homo sapiens

<400>  487
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aggctatcca gcgtactcca aagattcagg tttactcacg tcatccagca gagaatggaa      120

agtcaaattt cctgaattgc tatgtgtctg ggtttcatcc atccgacatt gaagttgact      180

tactgaagaa tggagagaga attgaaaaag tggagcattc agacttgtct ttcagcaagg      240

actggtcttt ctatctcttg tactacactg aattccccc cactgaaaaa gatgagtatg      300

cctgccgtgt gaaccatgtg actttgtcac agcccaagat agttaagtgg atcgagaca      360

tgtaagcagc atcatggagg tttgaagatg ccgcatttgg attggatgaa ttccaaattc      420

tgcttgcttg cttttttaata ttgatatgct tatacactta cactttatgc acaaaatgta      480

gggttataat aatgttaaca tggacatgat cttctttata attctacttt gagtgctgtc      540

tccatgtttg atgtatctga gcaggttgct ccacaggtag ctctaggagg gctggcaact      600

tagaggtggg gagcagagaa ttctcttatc caacatcaac atcttggtca gatttgaact      660

cttcaatctc ttgcactcaa agcttgttaa gatagttaag cgtgcataag ttaacttcca      720
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atttacatac tctgcttaga atttggggga aaatttagaa atataattga caggattatt   780

ggaaatttgt tataatgaat gaaacatttt tgtcatataa gattcatatt tacttcttat   840

aca   843

<210> 488
<211> 578
<212> DNA
<213> Homo sapiens

<400> 488
taaataggga atcctttccc cattgcttgt ttttctcagg tttgtcaaag atcagatagt   60

tgtagatatg cgacgttatt tctgagggct ctgttctgtt ccattgatct atatctctgt   120

cacatgcaca cgtatgtttg ttgtggcact attcacagtg gcaaagactt ggaaccaacc   180

caaatgtcca acaatgatag accgggttaa gaaaatgcgg cacatataca ccatggaata   240

ctatgtagcc ataaaaaatg atgagttcgt gtcctttgta gggacatgga tgaaattgga   300

aatcatcatt ctcagtaaac tatcgcagga acaaaaaacc aaacactgca tattctcact   360

cataggtggg aattgaacag tgggaacaca tggacacagg aaggggaaca tcacactctg   420

aggactgttg tggggtgggg ggagggagga gggatagcat gggagatat acctagtgct   480

ggatgacgag ttagtgggtg cagcgcacca gcatgtcaca tgtatacata tgtaactaac   540

ctgcacattg tgcacatgta ccctaaaact taaggtat   578

<210> 489
<211> 628
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (133)..(133)
<223> n is a, c, g, or t

<400> 489
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tatacccagc agtgggattg ctggattgta tggtagctct attagttttt tgaggaacct   120

ccaaactgtt ctncatagtg gttgtactca tttacattcc cactgtgaac cctgaaaatt   180

tgaggcaggt ctcagttaaa ttagaaagtt gattttgcca agttggggac acgcactcgt   240

gacacagcct caggaggaac tgatgacatg tgcccaggtg gtcagagcac agcttggttt   300

tatacatttt agggaaacct gagccatcaa tcaacatacg taaaatgggc cgggcacagc   360

agctcaagct gtaatcccag cactctggga ggccgaggcg ggtggatcac ttgaggtcag   420

gagttcgaga ccagcctggc caacatggtg aaaccccgtc tctattaaaa atacaaagct   480

tagctggatg tggtggcgca tgcctgtagt cccagctgct ctaggaggct gaggcatgag   540

aattgcttga acctgggagg cagaggctgc agtgagccga gatcgagcca ctatactcca   600

gcctggtcaa cagagtgaga ccctgtct   628

<210>   490
<211>   612
<212>   DNA
<213>   Homo sapiens

<400>   490
ccacaactgt gttcactagc aacctcaaac agacaccatg gtgcacctga ctcctgagga   60

gaagtctgcc gttactgccc tgtggggcaa ggtgaacgtg gatgaagttg gtggtgaggc   120

cctgggcagg ctgctggtgg tctacccttg acccagagg ttctttgagt cctttgggga   180

tctgtccact cctgatgctg ttatgggcaa ccctaaggtg aaggctcatg gcaagaaagt   240

gctcggtgcc tttagtgatg gcctggctca cctggacaac ctcaagggca cctttgccac   300

actgagtgag ctgcactgtg acaagctgca cgtggatcct gagaacttca ggctcctggg   360

caacgtgctg gtctgtgtgc tggcccatca ctttggcaaa gaattcaccc caccagtgca   420

ggctgcctat cagaaagtgg tggctggtgt ggctaatgcc ctggcccaca gtatcacta   480

agctcgcttt cttgctgtcc aatttctatt aaaggttcct ttgttcccta agtccaacta   540

ctaaactggg ggatattatg aagggccttg agcatctgga ttctgcctaa taaaaaacat   600

ttattttcat tg   612

<210>   491
<211>   677

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (208)..(208)
<223> n is a, c, g, or t

<400> 491
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taccacaaga agcggaagta tgagttgggg cgcccagctg ccaacaccaa gattggcccc   120

cgccgcatcc acacagtccg tgtgcgggga ggtaacaaga aataccgtgc cctgaggttg   180

gacgtgggga atttctcctg gggctcanag tgttgtactc gtaaaacaag gatcatcgat   240

gttgtctaca atgcatctaa taacgagctg gttcgtacca agaccctggt gaagaattgc   300

atcgtgctca tcgacagcac accgtaccga cagtggtacg agtcccacta tgcgctgccc   360

ctgggccgca agaagggagc caagctgact cctgaggaag aagagatttt aaacaaaaaa   420

cgatctaaaa aaattcagaa gaaatatgat gaaaggaaaa agaatgccaa aatcagcagt   480

ctcctggagg agcagttcca gcagggcaag cttcttgcgt gcatcgcttc aaggccggga   540

cagtgtggcc gagcagatgg ctatgtgcta gagggcaaag agttggagtt ctatcttagg   600

aaaatcaagg cccgcaaagg caaataaatc cttgttttgt cttcacccat gtaataaagg   660

tgtttattgt ttttgtt   677

<210> 492
<211> 736
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (74)..(74)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (83)..(83)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (724)..(724)
<223> n is a, c, g, or t

<400> 492
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caaccacctt gggnacatgt ggngaggacc tcctgaggct gtgtcatggg cacaccttaa   120

ccctgggaaa ataaactttc taaactgact tgagagctgt ctcagatatt ctgagcttac   180

agttattgtg aaatcatttt aattataaat taagtggaga tttacttaaa atcatgtgta   240

gaagtagcct gtgatatagt cctagataca tacattatca tcttatgtat cttccctccc   300

tcttccaggt tctgataaaa acagatgaaa tctgaaagac catgacagta gtattttgaa   360

aatgacagta tttgaaatta aaaaattgta aaagtgttct gttctatcac tgccaaagga   420

taagttacaa attggttctt ggaacgtaat atgtactatg tgcttgctat ttaataattt   480

accagtctta gtcttttta ttcagactaa ttttacctttt ttttaaccta tgactctttta   540

gttatagtag tacaaaaaag tagtttttagt tatagtttta gttgtagtac aaaaaagcat   600

tttctgtaag cttaatttct ttccccttcc cgctttccca gtcagatgac tttagtgatt   660

tggagttgtg tgctttataa gtgcattcct cagaggactt aatattacta agattttagc   720

aacnctgaaa tatgtt   736

<210> 493
<211> 579
<212> DNA
<213> Homo sapiens

<220>
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<222> (4)..(4)
<223> n is a, c, g, or t

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<222>  (70)..(70)
<223>  n is a, c, g, or t

<220>
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<222>  (72)..(72)
<223>  n is a, c, g, or t

<220>
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<222>  (149)..(149)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (249)..(249)
<223>  n is a, c, g, or t

<220>
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<223>  n is a, c, g, or t

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<223>  n is a, c, g, or t

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<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (438)..(438)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (556)..(556)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (559)..(559)
<223>  n is a, c, g, or t
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<400> 493

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aaaaaacaaa aaacaggggc ctgcctcanc cagcaggtga ggtctgccac tgagagcact     180

tctagcagca ggaacagcct ccacccccac actgcaatca agttttttgg gtcagcctta     240

ggagctaana aagggcctag tttgnctaaa tagcaggagt tatatccagg gatcttcagg     300

cccaggaatg ctaatgagta ggcattccat gggccctggg aatggctttg tgtgccanaa     360

atgatggcca caaaggcctt gctgcctttt ttcaaaatgg ctgcatccag ctgagtgctc     420

tctgccaaag gggananaaa aataagtctc cagtgcattt agattggtct ctcatcatct     480

ctctcctttt tgtttttatt agtctcctta accaaaactg ccaagaaagg cttggaattg     540

aaacaaaacc tgatanaana ggtaagaggt tgttctttt                            579
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<210> 494
<211> 752
<212> DNA
<213> Homo sapiens

<220>
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<222> (4)..(4)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (27)..(27)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (59)..(59)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (88)..(88)
<223> n is a, c, g, or t

<220>
<221> misc_feature

<222> (373)..(373)
<223> n is a, c, g, or t

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ttaggtaaat tttcaccagt attagttnta tttgcaaact gaaaaatgtt gtaggcttaa   120

tataaaataa ccacattagt gaacattata tctcttagaa gaaaggccat attttgctcc   180

tgcttctgta aaaatattat ttgtttgaag gggaaataat ggtagtgtga cctttcactt   240

aattcctact cccttaatgt gagagagaca aaatgagctg aagaaggaaa attctggagt   300

tacactccac aaccttgaac atactgacgg acatctctgt tttgacaacg atttctccat   360

gccacccatg ctntaatgcc ttgtggatca cggacaaccc tctttgcaca agctacagca   420

tcagcgatgt tatcttgcag caaagcactg caggataaat gacaggcatt aactgctcct   480

ggggttttgc catcattaca ccagtagcgg ctattgatct gaaatatccc ataatcagtg   540

cttctgtctc cagcattgta gtttgtagct cgtgtgttgt aaccactctc ccatttggcc   600

aaacacatcc agtttgctag gctgattccc ctgtagccat ccattcccaa tcttttcaga   660

gttctggcca actcacacct ttcaaagacc ttgccctgga ccgtaacaga aaggaggaca   720

agccccagaa caatgagagc cttcatgttg ac   752

<210> 495
<211> 414
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (103)..(104)
<223> n is a, c, g, or t

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ggagttcagg accagcctgg gcagcatacc gggattccat ctnnactaaa aacagtaggc   120

tgggtgtggt ggctcatgtc tgtaagctca ggactttgga aggccaagat gggaggatca   180

cttgagcctg ggagtttgac accagcttga gcatcgtagc caggccctga ctctacaaaa   240

aagtgaaata attagccgag tgtggtggtt cacacctgta atcccagctg ctcaggaggc   300

tgaggtagga gaatcatttg aacccgggag gtggaggttg cagttagccg agatcacgcc   360

attgcactcc ggcctgggcg ataaagcgag actctgtctc aaaaaaaaaa aaaa   414

<210> 496
<211> 670
<212> DNA
<213> Homo sapiens

<400> 496
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aatggaaagt caaatttcct gaattgctat gtgtctgggt ttcatccatc cgacattgaa   180

gttgacttac tgaagaatgg agagagaatt gaaaaagtgg agcattcaga cttgtctttc   240

agcaaggact ggtctttcta tctcttgtac tacactgaat tcacccccac tgaaaaagat   300

gagtatgcct gccgtgtgaa ccatgtgact ttgtcacagc caagatagt taagtgggat   360

cgagacatgt aagcagcatc atggaggttt gaagatgccg catttggatt ggatgaattc   420

caaattctgc ttgcttgctt tttaatattg atatgcttat acacttacac tttatgcaca   480

aaatgtaggg ttataataat gttaacatgg acatgatctt ctttataatt ctactttgag   540

tgctgtctcc atgtttgatg tatctgagca ggttgctcca caggtagctc taggagggct   600

ggcaccttag aggtggggag cagagaattc tcttatccaa catcaacatc ttggtcagat   660

ttgaactctt   670

<210> 497
<211> 489
<212> DNA
<213> Homo sapiens

<400> 497
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aagtcggtca ggaagcccgc gcgcaacagc catggctttt aaggataccg gaaaaacacc   120

cgtggagccg gaggtggcaa ttcaccgaat tcgaatcacc ctaacaagcc gcaacgtaaa   180

atccttggaa aaggtgtgtg ctgacttgat aagaggcgca aaagaaaaga atctcaaagt   240

gaaaggacca gttcgaatgc ctaccaagac tttgagaatc actacaagaa aaactccttg   300

tggtgaaggt tctaagacgt gggatcgttt ccagatgaga attcacaagc gactcattga   360

cttgcacagt ccttctgaga ttgttaagca gattacttcc atcagtattg agccaggagt   420

tgaggtggaa gtcaccattg cagatgctta agtcaactat tttaataaat tgatgaccag   480

ttgttaaaa   489

<210> 498
<211> 362
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (307)..(307)
<223> n is a, c, g, or t

<400> 498
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ttgactagcc tcacattata ttgatagagg ttcttgaaaa ctttaatgcc aattcatgta   120

tcttatgact aaaatagata atccatttag aaatttaagt cattcttgcg tgcttgatat   180

gtgtcagcac tatccaagtt gctaggggat acaatggtga agtgaaaata tcagctaggt   240

gccggtggct cacacctgtt atcccaacag tttgggaggc cagggtggga ggatcactca   300

agcacangcg tttcacacca gcctggacaa catacaagac cccatcttta ccaaaagtta   360

ag   362

<210> 499
<211> 382
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (193)..(193)

<223> n is a, c, g, or t

<400> 499
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ctttgggagg ccaaggcagg tcgatcacct gaggtcagga gctcaagacc agcctggcca   120

acatggtgaa accctgtctc tactaaaaat acaaaaatta gctgggcgtg gtggcgcatg   180

cctgtaatcc canctactca ggaggctgag gcaggagaat tgtttgaacc cgggaggcgg   240

aggttgcagt gagccgagat tgcgccactg cactccagcc tgggcaacag agcgaaactc   300

catctcaaaa aaaaaaaaaa aaaacaacct ttattttttc tgattttaaa agtaataact   360

agtttgtaga aacattaaaa gt   382

<210> 500
<211> 556
<212> DNA
<213> Homo sapiens

<400> 500
tctttcggaa gcgcgccttg tgttggtacc cgggaattcg cggccgcgtc gacgcggtcg   60

taagggctga ggattttttgg tccgcacgct cctgctcctg actcaccgct gttcgctctc   120

gccgaggaac aagtcggtca ggaagcccgc gcgcaacagc catggctttt aaggataccg   180

gaaaaacacc cgtggagccg gaggtggcaa ttcaccgaat tcgaatcacc ctaacaagcc   240

gcaacgtaaa atccttggaa aaggtgtgtg ctgacttgat aagaggcgca aaagaaaaga   300

atctcaaagt gaaaggacca gttcgaatgc ctaccaagac tttgagaatc actacaagaa   360

aaactccttg tggtgaaggt tctaagacgt gggatcgttt ccagatgaga attcacaagc   420

gactcattga cttgcacagt ccttctgaga ttgttaagca gattacttcc atcagtattg   480

agccaggagt tgaggtggaa gtcaccattg cagatgctta agtcaactat tttaataaat   540

tgatgaccag ttgtttt   556

<210> 501
<211> 464
<212> DNA
<213> Homo sapiens

<400> 501

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gcggctgctg ttggttgggg gccgtcccgc tcctaaggca ggaagatggt ggccgcaaag        60

aagacgaaaa agtcgctgga gtcgatcaac tctaggctcc aactcgttat gaaaagtggg       120

aagtacgtcc tggggtacaa gcagactctg aagatgatca gacaaggcaa agcgaaattg       180

gtcattctcg ctaacaactg cccagctttg aggaaatctg aaatagagta ctatgctatg       240

ttggctaaaa ctggtgtcca tcactacagt ggcaataata ttgaactggg cacagcatgc       300

ggaaaatact acagagtgtg cacactggct atcattgatc caggtgactc tgacatcatt       360

agaagcatgc cagaacagac tggtgaaaag taaacctttt cacctacaaa atttcacctg       420

caaaccttaa acctgcaaaa ttttcctttta ataaaatttg cttg                       464
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